



Technical data of tubes

Tel: +33 3 44 77 30 00



Round steel tubes

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
14	3.0	0.8	0.50	1.02	0	0	0.000
17	2.3	0.8	1.21	1.02	0	0	0.000
	2.6	0.9	1.09	1.15	0	0	0.000
	2.9	1.0	0.99	1.27	0	0	0.000
	3.2	1.1	0.88	1.40	0	0	0.000
	3.6	1.2	0.75	1.53	0	0	0.000
	4.0	1.3	0.64	1.66	0	0	0.000
	4.5	1.4	0.50	1.78	0	0	0.000
	5.1	1.5	0.36	1.91	0	0	0.000
	5.6	1.6	0.26	2.04	0	0	0.000
	5.9	1.6	0.21	2.04	0	0	0.000
	6.4	1.7	0.14	2.17	0	0	0.000
	6.7	1.7	0.10	2.17	0	0	0.000
	7.1	1.7	0.06	2.17	0	0	0.000
	7.5	1.8	0.03	2.29	0	0	0.000
	7.9	1.8	0.01	2.29	0	0	0.000
21	2.3	1.1	2.11	1.40	1	1	0.844
	2.6	1.2	1.96	1.53	1	1	0.808
	2.9	1.3	1.81	1.66	1	1	0.775
	3.2	1.4	1.67	1.78	1	1	0.749
	3.6	1.5	1.50	1.91	1	1	0.723
	4.0	1.7	1.33	2.17	1	1	0.678
	4.5	1.8	1.13	2.29	1	1	0.661
	5.1	2.0	0.92	2.55	1	1	0.626
	5.6	2.1	0.75	2.68	1	1	0.610
	5.9	2.2	0.66	2.80	1	1	0.597
	6.4	2.3	0.53	2.93	1	1	0.583
	6.7	2.4	0.45	3.06	1	1	0.571
	7.1	2.4	0.36	3.06	1	1	0.571
	7.5	2.5	0.28	3.18	1	1	0.560
	7.9	2.6	0.21	3.31	1	1	0.549
	8.3	2.6	0.15	3.31	1	1	0.549
	8.7	2.6	0.10	3.31	1	1	0.549
	9.1	2.7	0.06	3.44	1	1	0.539
	9.5	2.7	0.03	3.44	1	1	0.539
25	2.3	1.3	3.27	1.66	1	1	0.775
	2.6	1.4	3.08	1.78	1	1	0.749
	2.9	1.6	2.90	2.04	1	1	0.700

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
25	3.2	1.7	2.72	2.17	1	1	0.678
	3.6	1.9	2.49	2.42	1	1	0.642
	4.0	2.1	2.27	2.68	2	1	0.863
	4.5	2.3	2.01	2.93	2	1	0.826
	5.1	2.5	1.72	3.18	2	1	0.793
	5.6	2.7	1.50	3.44	2	1	0.762
	5.9	2.8	1.37	3.57	2	1	0.748
	6.4	2.9	1.17	3.69	2	1	0.736
	6.7	3.0	1.06	3.82	2	1	0.723
	7.1	3.1	0.92	3.95	2	1	0.711
	7.5	3.2	0.79	4.08	2	1	0.700
	7.9	3.3	0.66	4.20	2	2	0.689
	8.3	3.4	0.55	4.33	2	2	0.679
	8.7	3.5	0.45	4.46	2	2	0.669
	9.1	3.6	0.36	4.59	2	2	0.660
	9.5	3.6	0.28	4.59	2	2	0.660
	9.9	3.7	0.21	4.71	2	2	0.651
	10.3	3.7	0.15	4.71	2	2	0.651
	11.1	3.8	0.06	4.84	2	2	0.642
	11.5	3.8	0.03	4.84	2	2	0.642
	11.9	3.8	0.01	4.84	2	2	0.642
27	2.3	1.4	3.94	1.78	1	1	0.749
	2.6	1.6	3.73	2.04	2	1	0.989
	2.9	1.7	3.53	2.17	2	1	0.960
	3.2	1.9	3.33	2.42	2	1	0.908
	3.6	2.1	3.08	2.68	2	1	0.863
	4.0	2.3	2.84	2.93	2	1	0.826
	4.5	2.5	2.54	3.18	2	2	0.793
	5.1	2.8	2.22	3.57	2	2	0.748
	5.6	3.0	1.96	3.82	2	2	0.723
	5.9	3.1	1.81	3.95	2	2	0.711
	6.4	3.3	1.58	4.20	2	2	0.689
	6.7	3.4	1.45	4.33	2	2	0.679
	7.1	3.5	1.29	4.46	2	2	0.669
	7.5	3.6	1.13	4.59	3	2	0.808
	7.9	3.7	0.99	4.71	3	2	0.798
	8.3	3.8	0.85	4.84	3	2	0.787
	8.7	3.9	0.72	4.97	3	2	0.777
	9.1	4.0	0.61	5.10	3	2	0.766
	9.5	4.1	0.50	5.22	3	2	0.758



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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
27	9.9	4.2	0.41	5.35	3	2	0.748
	10.3	4.2	0.32	5.35	3	2	0.748
	11.1	4.4	0.18	5.61	3	2	0.731
	11.5	4.4	0.13	5.61	3	2	0.731
	11.9	4.4	0.08	5.61	3	2	0.731
	12.7	4.5	0.02	5.73	3	2	0.723
30	2.3	1.6	5.07	2.04	2	1	0.989
	2.6	1.8	4.83	2.29	2	1	0.934
	2.9	1.9	4.60	2.42	2	2	0.908
	3.2	2.1	4.37	2.68	2	2	0.863
	3.6	2.3	4.08	2.93	3	2	1.011
	4.0	2.6	3.80	3.31	3	2	0.951
	4.5	2.8	3.46	3.57	3	2	0.916
	5.1	3.1	3.08	3.95	3	2	0.871
	5.6	3.4	2.78	4.33	3	2	0.832
	5.9	3.5	2.60	4.46	3	2	0.820
	6.4	3.7	2.32	4.71	4	2	0.921
	6.7	3.8	2.16	4.84	4	2	0.908
	7.1	4.0	1.96	5.10	4	2	0.885
	7.5	4.2	1.77	5.35	4	2	0.864
	7.9	4.3	1.58	5.48	4	3	0.854
	8.3	4.4	1.41	5.61	4	3	0.844
	8.7	4.6	1.25	5.86	4	3	0.826
	9.1	4.7	1.09	5.99	4	3	0.817
	9.5	4.8	0.95	6.11	4	3	0.809
	9.9	4.9	0.82	6.24	4	3	0.800
	10.3	5.0	0.69	6.37	4	3	0.792
	11.1	5.2	0.48	6.62	4	3	0.777
	11.9	5.3	0.30	6.75	4	3	0.770
	12.7	5.4	0.17	6.88	4	3	0.762
	13.5	5.5	0.07	7.01	4	3	0.755
	14.3	5.5	0.02	7.01	4	3	0.755
32	1.5	1.1	6.61	1.40	2	1	1.195
	2.0	1.5	6.16	1.91	2	1	1.023
	2.3	1.7	5.90	2.17	2	1	0.960
	2.6	1.9	5.64	2.42	3	2	1.113
	2.9	2.1	5.39	2.68	3	2	1.057
	3.2	2.3	5.15	2.93	3	2	1.011
	3.6	2.5	4.83	3.18	3	2	0.971

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32	4.0	2.8	4.52	3.57	4	2	1.058
	4.5	3.1	4.15	3.95	4	2	1.006
	5.1	3.4	3.73	4.33	4	3	0.961
	5.6	3.6	3.40	4.59	4	3	0.933
	5.9	3.8	3.20	4.84	4	3	0.908
	6.4	4.0	2.90	5.10	4	3	0.885
	6.7	4.2	2.72	5.35	5	3	0.966
	7.1	4.4	2.49	5.61	5	3	0.943
	7.5	4.5	2.27	5.73	5	3	0.934
	7.9	4.7	2.06	5.99	5	3	0.913
	8.3	4.9	1.86	6.24	5	3	0.894
	8.7	5.0	1.67	6.37	5	3	0.886
	9.1	5.1	1.50	6.50	5	3	0.876
	9.5	5.3	1.33	6.75	5	3	0.860
	9.9	5.4	1.17	6.88	5	3	0.852
	10.3	5.5	1.02	7.01	5	3	0.844
	11.1	5.7	0.75	7.26	5	3	0.830
	12.7	6.0	0.34	7.64	5	3	0.808
	13.5	6.2	0.20	7.90	5	3	0.795
	14.3	6.2	0.09	7.90	5	3	0.795
	15.1	6.3	0.03	8.03	5	3	0.789
33	2.0	1.5	6.61	1.91	2	1	1.023
	2.3	1.7	6.33	2.17	3	2	1.175
	2.6	1.9	6.07	2.42	3	2	1.113
	2.9	2.2	5.81	2.80	3	2	1.034
	3.2	2.4	5.56	3.06	3	2	0.989
	3.6	2.6	5.23	3.31	4	2	1.099
	4.0	2.9	4.91	3.69	4	2	1.041
	4.5	3.2	4.52	4.08	4	3	0.989
	5.1	3.5	4.08	4.46	4	3	0.947
	5.6	3.8	3.73	4.84	5	3	1.016
	5.9	3.9	3.53	4.97	5	3	1.002
	6.4	4.2	3.20	5.35	5	3	0.966
	6.7	4.3	3.02	5.48	5	3	0.954
	7.1	4.5	2.78	5.73	5	3	0.934
	7.5	4.7	2.54	5.99	5	3	0.913
	7.9	4.9	2.32	6.24	5	3	0.894
	8.3	5.1	2.11	6.50	6	3	0.960
	8.7	5.2	1.91	6.62	6	3	0.951
	9.1	5.4	1.72	6.88	6	3	0.933



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33	9.5	5.5	1.54	7.01	6	3	0.925
	9.9	5.6	1.37	7.13	6	3	0.917
	10.3	5.8	1.21	7.39	6	3	0.901
	11.1	6.0	0.92	7.64	6	3	0.886
	11.9	6.2	0.66	7.90	6	4	0.871
	12.7	6.4	0.45	8.15	6	4	0.857
	13.5	6.5	0.28	8.28	6	4	0.851
	14.3	6.6	0.15	8.41	6	4	0.844
	15.1	6.7	0.06	8.54	6	4	0.838
	15.9	6.7	0.01	8.54	6	4	0.838
35	2.3	1.9	7.26	2.42	3	2	1.113
	2.6	2.1	6.97	2.68	4	2	1.221
	2.9	2.3	6.70	2.93	4	2	1.168
	3.2	2.5	6.42	3.18	4	2	1.121
	3.6	2.8	6.07	3.57	4	3	1.058
	4.0	3.1	5.73	3.95	5	3	1.125
	4.5	3.4	5.31	4.33	5	3	1.074
	5.1	3.8	4.83	4.84	6	3	1.113
	5.6	4.1	4.45	5.22	6	3	1.071
	5.9	4.2	4.23	5.35	6	3	1.058
	6.4	4.5	3.87	5.73	6	4	1.023
	6.7	4.7	3.66	5.99	6	4	1.000
	7.1	4.9	3.40	6.24	6	4	0.980
	7.5	5.1	3.14	6.50	7	4	1.037
	7.9	5.3	2.90	6.75	7	4	1.018
	8.3	5.5	2.66	7.01	7	4	0.999
	8.7	5.6	2.43	7.13	7	4	0.990
	9.1	5.8	2.22	7.39	7	4	0.973
	9.5	6.0	2.01	7.64	7	4	0.957
	9.9	6.1	1.81	7.77	7	4	0.949
	10.3	6.3	1.63	8.03	7	4	0.933
	10.7	6.4	1.45	8.15	7	4	0.926
	11.1	6.5	1.29	8.28	7	4	0.919
	11.9	6.8	0.99	8.66	7	4	0.898
	12.3	6.9	0.85	8.79	7	4	0.892
	12.7	7.0	0.72	8.92	7	4	0.886
	13.1	7.1	0.61	9.04	7	4	0.879
	13.5	7.2	0.50	9.17	7	4	0.873
	14.3	7.3	0.32	9.30	7	4	0.867
	15.1	7.4	0.18	9.43	7	4	0.861

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35	15.9	7.5	0.08	9.55	7	4	0.856
	16.7	7.5	0.02	9.55	7	4	0.856
38	2.3	2.0	8.76	2.55	4	2	1.252
	2.6	2.3	8.45	2.93	5	2	1.306
	2.9	2.5	8.14	3.18	5	3	1.253
	3.2	2.7	7.84	3.44	5	3	1.205
	3.6	3.1	7.45	3.95	6	3	1.232
	4.0	3.4	7.07	4.33	6	3	1.177
	4.5	3.7	6.61	4.71	7	4	1.219
	5.1	4.1	6.07	5.22	7	4	1.158
	5.6	4.5	5.64	5.73	8	4	1.181
	6.4	5.0	4.99	6.37	8	4	1.120
	6.7	5.2	4.75	6.62	8	4	1.099
	7.1	5.4	4.45	6.88	9	5	1.143
	7.5	5.6	4.15	7.13	9	5	1.123
	7.9	5.9	3.87	7.52	9	5	1.094
	8.3	6.1	3.60	7.77	9	5	1.076
	8.7	6.3	3.33	8.03	9	5	1.058
	9.1	6.5	3.08	8.28	10	5	1.099
	9.5	6.7	2.84	8.54	10	5	1.082
	9.9	6.9	2.60	8.79	10	5	1.066
	10.3	7.0	2.38	8.92	10	5	1.058
	10.7	7.2	2.16	9.17	10	5	1.044
	11.1	7.4	1.96	9.43	10	5	1.029
	11.5	7.5	1.77	9.55	10	5	1.023
	11.9	7.7	1.58	9.81	10	5	1.009
	12.7	7.9	1.25	10.06	10	5	0.996
	13.1	8.0	1.09	10.19	10	5	0.990
	13.5	8.2	0.95	10.45	10	5	0.978
	14.3	8.4	0.69	10.70	10	5	0.966
	15.1	8.5	0.48	10.83	10	5	0.960
	15.9	8.7	0.30	11.08	10	5	0.950
	17.5	8.8	0.07	11.21	10	5	0.944
40	2.0	1.9	10.18	2.42	4	2	1.285
	2.3	2.1	9.84	2.68	5	2	1.366
	2.5	2.3	9.62	2.93	5	3	1.306
	2.6	2.4	9.51	3.06	5	3	1.278
	2.9	2.7	9.19	3.44	6	3	1.320
	3.2	2.9	8.87	3.69	6	3	1.275

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40	3.6	3.2	8.45	4.08	7	3	1.309
	4.0	3.6	8.04	4.59	8	4	1.320
	4.5	3.9	7.55	4.97	8	4	1.268
	5.1	4.4	6.97	5.61	9	4	1.266
	5.6	4.8	6.51	6.11	9	5	1.213
	6.4	5.3	5.81	6.75	10	5	1.216
	6.7	5.5	5.56	7.01	10	5	1.194
	7.1	5.8	5.23	7.39	10	5	1.163
	7.5	6.0	4.91	7.64	11	5	1.200
	7.9	6.3	4.60	8.03	11	5	1.170
	8.3	6.5	4.30	8.28	11	6	1.152
	8.7	6.7	4.01	8.54	11	6	1.134
	9.1	6.9	3.73	8.79	11	6	1.118
	9.5	7.1	3.46	9.04	12	6	1.151
	9.9	7.3	3.20	9.30	12	6	1.135
	10.3	7.5	2.96	9.55	12	6	1.121
	10.7	7.7	2.72	9.81	12	6	1.105
	11.1	7.9	2.49	10.06	12	6	1.092
	11.5	8.1	2.27	10.32	12	6	1.078
	11.9	8.2	2.06	10.45	12	6	1.071
	12.3	8.4	1.86	10.70	12	6	1.058
	12.7	8.6	1.67	10.96	12	6	1.046
	13.1	8.7	1.50	11.08	12	6	1.040
	13.5	8.8	1.33	11.21	12	6	1.034
	14.3	9.1	1.02	11.59	13	6	1.059
	15.1	9.3	0.75	11.85	13	6	1.047
	15.9	9.5	0.53	12.10	13	6	1.036
	17.5	9.7	0.20	12.36	13	6	1.025
	18.3	9.8	0.09	12.48	13	6	1.020
	19.1	9.8	0.03	12.48	13	6	1.020
42	2.3	2.3	10.99	2.93	6	3	1.431
	2.5	2.4	10.75	3.06	6	3	1.400
	2.6	2.5	10.64	3.18	6	3	1.373
	2.9	2.8	10.29	3.57	7	3	1.400
	3.2	3.1	9.95	3.95	7	4	1.331
	3.6	3.4	9.51	4.33	8	4	1.359
	4.0	3.7	9.08	4.71	9	4	1.382
	4.5	4.2	8.55	5.35	10	5	1.367
	5.1	4.6	7.94	5.86	10	5	1.306
	5.6	5.0	7.45	6.37	11	5	1.314

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42	5.9	5.3	7.16	6.75	11	5	1.276
	6.4	5.6	6.70	7.13	12	6	1.297
	6.7	5.8	6.42	7.39	12	6	1.274
	7.1	6.1	6.07	7.77	12	6	1.242
	7.5	6.4	5.73	8.15	13	6	1.262
	7.9	6.6	5.39	8.41	13	6	1.243
	8.3	6.9	5.07	8.79	13	6	1.216
	8.7	7.1	4.75	9.04	13	6	1.199
	9.1	7.4	4.45	9.43	14	7	1.218
	9.5	7.6	4.15	9.68	14	7	1.202
	9.9	7.8	3.87	9.94	14	7	1.186
	10.3	8.1	3.60	10.32	14	7	1.164
	10.7	8.3	3.33	10.57	14	7	1.151
	11.1	8.5	3.08	10.83	15	7	1.176
	11.5	8.7	2.84	11.08	15	7	1.163
	11.9	8.8	2.60	11.21	15	7	1.156
	12.3	9.0	2.38	11.46	15	7	1.144
	12.7	9.2	2.16	11.72	15	7	1.131
	13.1	9.3	1.96	11.85	15	7	1.125
	13.5	9.5	1.77	12.10	15	7	1.113
	14.3	9.8	1.41	12.48	15	7	1.096
	15.1	10.0	1.09	12.74	15	7	1.084
	15.9	10.2	0.82	12.99	15	7	1.074
	17.5	10.6	0.38	13.50	15	7	1.054
	18.3	10.7	0.23	13.63	15	7	1.049
	19.1	10.8	0.11	13.76	15	7	1.044
	20.6	10.9	0.01	13.89	15	7	1.039
45	2.3	2.4	12.82	3.06	7	3	1.512
	2.6	2.7	12.44	3.44	8	3	1.525
	2.9	3.0	12.07	3.82	9	4	1.534
	3.2	3.3	11.70	4.20	9	4	1.463
	3.6	3.7	11.22	4.71	10	4	1.457
	4.0	4.0	10.75	5.10	11	5	1.468
	4.5	4.5	10.18	5.73	12	5	1.447
	5.1	5.0	9.51	6.37	13	6	1.428
	5.6	5.4	8.97	6.88	14	6	1.426
	5.9	5.7	8.66	7.26	14	6	1.388
	6.4	6.1	8.14	7.77	15	7	1.389
	6.7	6.3	7.84	8.03	15	7	1.366
	7.1	6.6	7.45	8.41	16	7	1.379

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Ø mm	Wall-thickness mm	G kg/m	A cm2	S cm2	I cm4	I/V cm3	ρ cm
45	7.5	6.9	7.07	8.79	16	7	1.349
	7.9	7.2	6.70	9.17	16	7	1.320
	8.3	7.5	6.33	9.55	17	8	1.334
	8.7	7.8	5.98	9.94	17	8	1.307
	9.1	8.1	5.64	10.32	18	8	1.320
	9.5	8.3	5.31	10.57	18	8	1.304
	9.9	8.6	4.99	10.96	18	8	1.281
	10.3	8.8	4.68	11.21	18	8	1.267
	10.7	9.1	4.37	11.59	19	8	1.280
	11.1	9.3	4.08	11.85	19	8	1.266
	11.5	9.5	3.80	12.10	19	8	1.252
	11.9	9.7	3.53	12.36	19	9	1.239
	12.3	9.9	3.27	12.61	19	9	1.227
	12.7	10.1	3.02	12.87	19	9	1.214
	13.1	10.3	2.78	13.12	20	9	1.234
	13.5	10.5	2.54	13.38	20	9	1.222
	14.3	10.8	2.11	13.76	20	9	1.205
	15.1	11.1	1.72	14.14	20	9	1.189
	15.9	11.4	1.37	14.52	20	9	1.173
	16.7	11.7	1.06	14.90	20	9	1.158
	17.5	11.9	0.79	15.16	20	9	1.148
	18.3	12.1	0.55	15.41	20	9	1.139
	19.1	12.2	0.36	15.54	20	9	1.134
	19.8	12.3	0.23	15.67	20	9	1.129
	20.6	12.4	0.11	15.80	20	9	1.125
	21.4	12.5	0.04	15.92	20	9	1.120
	22.2	12.5	0.00	15.92	20	9	1.120
48	2.3	2.6	14.79	3.31	9	4	1.648
	2.6	2.9	14.39	3.69	10	4	1.646
	2.9	3.2	13.99	4.08	10	4	1.565
	3.2	3.5	13.59	4.46	11	5	1.570
	3.6	3.9	13.07	4.97	12	5	1.553
	3.7	4.0	12.95	5.10	13	5	1.596
	4.0	4.3	12.57	5.48	13	6	1.540
	4.5	4.8	11.95	6.11	15	6	1.566
	5.1	5.4	11.22	6.88	16	7	1.525
	5.6	5.9	10.64	7.52	17	7	1.503
	5.9	6.1	10.29	7.77	18	7	1.522
	6.4	6.6	9.73	8.41	19	8	1.502
	6.7	6.8	9.40	8.66	19	8	1.481

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
48	7.1	7.2	8.97	9.17	20	8	1.476
	7.5	7.5	8.55	9.55	20	8	1.447
	7.6	7.6	8.45	9.68	20	8	1.437
	7.9	7.8	8.14	9.94	21	9	1.453
	8.3	8.1	7.74	10.32	21	9	1.426
	8.7	8.4	7.35	10.70	22	9	1.433
	9.1	8.7	6.97	11.08	22	9	1.409
	9.5	9.0	6.61	11.46	23	9	1.416
	9.9	9.3	6.25	11.85	23	10	1.393
	10.3	9.6	5.90	12.23	23	10	1.371
	10.7	9.8	5.56	12.48	23	10	1.357
	11.1	10.1	5.23	12.87	24	10	1.365
	11.5	10.4	4.91	13.25	24	10	1.345
	11.9	10.6	4.60	13.50	24	10	1.333
	12.3	10.8	4.30	13.76	25	10	1.347
	12.7	11.1	4.01	14.14	25	10	1.329
	13.1	11.3	3.73	14.39	25	10	1.317
50	2.3	2.7	16.19	3.44	10	4	1.704
	2.6	3.0	15.76	3.82	11	4	1.697
	2.9	3.4	15.34	4.33	12	5	1.664
	3.2	3.7	14.93	4.71	13	5	1.661
	3.6	4.1	14.39	5.22	14	6	1.637
	4.0	4.5	13.85	5.73	15	6	1.618
	4.5	5.0	13.20	6.37	17	7	1.633
	5.1	5.6	12.44	7.13	18	7	1.589
	5.6	6.1	11.82	7.77	19	8	1.563
	5.9	6.4	11.46	8.15	20	8	1.566
	6.4	6.9	10.87	8.79	21	9	1.545
	6.7	7.2	10.52	9.17	22	9	1.548
	7.1	7.5	10.07	9.55	23	9	1.551
	7.5	7.9	9.62	10.06	23	9	1.511
	7.9	8.2	9.19	10.45	24	10	1.515
	8.3	8.5	8.76	10.83	24	10	1.488
	8.7	8.9	8.35	11.34	25	10	1.484
	9.1	9.2	7.94	11.72	26	10	1.489
	9.5	9.5	7.55	12.10	26	10	1.465
	9.9	9.8	7.16	12.48	27	11	1.470
	10.3	10.1	6.79	12.87	27	11	1.448
	10.7	10.4	6.42	13.25	27	11	1.427
	11.1	10.6	6.07	13.50	28	11	1.440

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
50	11.5	10.9	5.73	13.89	28	11	1.419
	11.9	11.2	5.39	14.27	28	11	1.400
	12.3	11.4	5.07	14.52	29	11	1.413
	12.7	11.7	4.75	14.90	29	12	1.394
	13.1	11.9	4.45	15.16	29	12	1.383
	13.5	12.2	4.15	15.54	29	12	1.366
	14.3	12.6	3.60	16.05	30	12	1.367
	15.1	13.0	3.08	16.56	30	12	1.346
	15.9	13.4	2.60	17.07	30	12	1.325
	16.7	13.7	2.16	17.45	30	12	1.311
	17.5	14.0	1.77	17.83	30	12	1.297
	18.3	14.3	1.41	18.22	31	12	1.304
	19.1	14.6	1.09	18.60	31	12	1.291
	19.8	14.7	0.85	18.73	31	12	1.286
	20.6	14.9	0.61	18.98	31	12	1.277
	21.4	15.1	0.41	19.24	31	12	1.269
	22.2	15.2	0.25	19.36	31	12	1.265
	23.0	15.3	0.13	19.49	31	12	1.261
	23.8	15.4	0.05	19.62	31	12	1.256
51	2.0	2.4	17.35	3.06	9	4	1.714
	2.3	2.8	16.91	3.57	11	4	1.755
	2.6	3.1	16.47	3.95	12	5	1.742
	2.9	3.4	16.05	4.33	13	5	1.732
	3.2	3.8	15.62	4.84	14	5	1.700
	3.6	4.2	15.07	5.35	15	6	1.674
	4.0	4.6	14.52	5.86	16	6	1.652
	4.5	5.2	13.85	6.62	18	7	1.648
	5.1	5.8	13.07	7.39	20	8	1.644
	5.6	6.3	12.44	8.03	21	8	1.617
	5.9	6.6	12.07	8.41	22	8	1.617
	6.4	7.0	11.46	8.92	23	9	1.605
	6.7	7.3	11.10	9.30	23	9	1.572
	7.1	7.7	10.64	9.81	24	9	1.563
	7.5	8.0	10.18	10.19	25	10	1.566
	7.9	8.4	9.73	10.70	26	10	1.558
	8.3	8.7	9.29	11.08	26	10	1.531
	8.7	9.1	8.87	11.59	27	11	1.526
	9.1	9.4	8.45	11.97	28	11	1.529
	9.5	9.7	8.04	12.36	28	11	1.504
	9.9	10.0	7.65	12.74	28	11	1.482

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
51	10.3	10.3	7.26	13.12	29	11	1.486
	10.7	10.6	6.88	13.50	29	12	1.465
	11.1	10.9	6.51	13.89	30	12	1.469
	11.5	11.2	6.16	14.27	30	12	1.449
	11.9	11.5	5.81	14.65	31	12	1.454
	12.3	11.7	5.47	14.90	31	12	1.442
	12.7	12.0	5.15	15.29	31	12	1.423
	13.1	12.2	4.83	15.54	31	12	1.412
	14.3	12.9	3.94	16.43	32	13	1.395
	15.1	13.4	3.40	17.07	32	13	1.369
	15.9	13.8	2.90	17.58	33	13	1.370
	16.7	14.1	2.43	17.96	33	13	1.355
	17.5	14.5	2.01	18.47	33	13	1.336
	18.3	14.8	1.63	18.85	33	13	1.323
	19.1	15.0	1.29	19.11	33	13	1.314
	19.8	15.2	1.02	19.36	33	13	1.305
	20.6	15.4	0.75	19.62	33	13	1.296
	22.2	15.8	0.34	20.13	33	13	1.280
	23.0	15.9	0.20	20.25	33	13	1.276
	23.8	16.0	0.09	20.38	33	13	1.272
	24.6	16.0	0.03	20.38	33	13	1.272
52	4.0	4.7	15.21	5.99	17	7	1.684
	5.1	5.9	13.72	7.52	21	8	1.671
54	2.3	2.9	19.17	3.69	12	5	1.803
	2.6	3.3	18.70	4.20	14	5	1.825
	2.9	3.7	18.25	4.71	15	6	1.784
	3.2	4.0	17.80	5.10	17	6	1.825
	3.6	4.5	17.20	5.73	18	7	1.772
	4.0	4.9	16.62	6.24	20	7	1.790
	4.5	5.5	15.90	7.01	22	8	1.771
	5.1	6.2	15.07	7.90	24	9	1.742
	5.6	6.7	14.39	8.54	25	9	1.710
	5.9	7.0	13.99	8.92	26	10	1.707
	6.4	7.5	13.33	9.55	28	10	1.712
	6.7	7.8	12.95	9.94	28	11	1.678
	7.1	8.2	12.44	10.45	29	11	1.665
	7.5	8.6	11.95	10.96	30	11	1.654
	7.9	9.0	11.46	11.46	31	12	1.644
	8.3	9.4	10.99	11.97	32	12	1.634

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
54	8.7	9.7	10.52	12.36	33	12	1.634
	9.1	10.1	10.07	12.87	34	12	1.625
	9.5	10.4	9.62	13.25	34	13	1.601
	9.9	10.8	9.19	13.76	35	13	1.594
	10.3	11.1	8.76	14.14	36	13	1.595
	10.7	11.4	8.35	14.52	36	13	1.574
	11.1	11.7	7.94	14.90	37	14	1.575
	11.5	12.1	7.55	15.41	37	14	1.549
	11.9	12.4	7.16	15.80	38	14	1.550
	12.3	12.6	6.79	16.05	38	14	1.538
	12.7	12.9	6.42	16.43	38	14	1.520
	13.1	13.2	6.07	16.82	39	14	1.522
	13.5	13.5	5.73	17.20	39	14	1.505
	14.3	14.0	5.07	17.83	40	15	1.497
	15.1	14.5	4.45	18.47	40	15	1.471
	15.9	14.9	3.87	18.98	40	15	1.451
	16.7	15.4	3.33	19.62	41	15	1.445
	17.5	15.8	2.84	20.13	41	15	1.427
	18.3	16.1	2.38	20.51	41	15	1.413
	19.1	16.4	1.96	20.89	41	15	1.401
	19.8	16.7	1.63	21.27	42	15	1.405
	20.6	17.0	1.29	21.66	42	15	1.392
	21.4	17.2	0.99	21.91	42	15	1.384
	22.2	17.4	0.72	22.17	42	15	1.376
	23.0	17.6	0.50	22.42	42	15	1.368
	23.8	17.7	0.32	22.55	42	15	1.364
	24.6	17.8	0.18	22.68	42	15	1.360
	25.4	17.9	0.08	22.80	42	15	1.357
55	2.3	3.0	19.95	3.82	13	5	1.844
	2.6	3.4	19.48	4.33	15	5	1.861
	2.9	3.7	19.01	4.71	16	6	1.843
	3.2	4.1	18.55	5.22	18	6	1.856
	3.6	4.6	17.95	5.86	19	7	1.800
	4.0	5.0	17.35	6.37	21	8	1.815
	4.5	5.6	16.62	7.13	23	8	1.796
	5.1	6.3	15.76	8.03	25	9	1.764
	5.6	6.8	15.07	8.66	27	10	1.765
	5.9	7.1	14.66	9.04	28	10	1.759
	6.4	7.7	13.99	9.81	29	11	1.719
	6.7	8.0	13.59	10.19	30	11	1.715

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55	7.1	8.4	13.07	10.70	31	11	1.702
	7.5	8.8	12.57	11.21	32	12	1.689
	7.8	9.1	12.19	11.59	33	12	1.687
	7.9	9.2	12.07	11.72	33	12	1.678
	8.3	9.6	11.58	12.23	34	12	1.667
	8.7	9.9	11.10	12.61	35	13	1.666
	9.1	10.3	10.64	13.12	36	13	1.656
	9.5	10.7	10.18	13.63	37	13	1.647
	9.9	11.0	9.73	14.01	37	14	1.625
	10.3	11.4	9.29	14.52	38	14	1.617
	10.7	11.7	8.87	14.90	39	14	1.617
	11.1	12.0	8.45	15.29	39	14	1.597
	11.5	12.3	8.04	15.67	40	14	1.597
	11.9	12.6	7.65	16.05	40	15	1.578
	12.3	13.0	7.26	16.56	41	15	1.573
	12.7	13.2	6.88	16.82	41	15	1.561
	13.1	13.5	6.51	17.20	41	15	1.544
	13.5	13.8	6.16	17.58	42	15	1.545
	14.3	14.4	5.47	18.34	43	15	1.531
	15.1	14.9	4.83	18.98	43	16	1.505
	15.9	15.3	4.23	19.49	43	16	1.485
	16.7	15.8	3.66	20.13	44	16	1.478
	17.5	16.2	3.14	20.64	44	16	1.460
	18.3	16.6	2.66	21.15	44	16	1.442
	19.1	16.9	2.22	21.53	45	16	1.445
	19.8	17.2	1.86	21.91	45	16	1.433
	20.6	17.5	1.50	22.29	45	16	1.420
	21.4	17.7	1.17	22.55	45	16	1.412
	22.2	18.0	0.88	22.93	45	16	1.400
	23.0	18.2	0.64	23.18	45	16	1.393
	23.8	18.3	0.43	23.31	45	16	1.389
	24.6	18.4	0.26	23.44	45	16	1.385
	25.4	18.5	0.14	23.57	45	16	1.381
	27.0	18.6	0.01	23.69	45	16	1.378
57	2.3	3.1	21.57	3.95	15	5	1.948
	2.6	3.5	21.07	4.46	17	6	1.952
	2.9	3.9	20.59	4.97	18	6	1.903
	3.2	4.2	20.11	5.35	19	7	1.884
	3.6	4.7	19.48	5.99	21	8	1.872
	4.0	5.2	18.86	6.62	23	8	1.863

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57	4.5	5.8	18.10	7.39	26	9	1.875
	5.1	6.5	17.20	8.28	28	10	1.839
	5.6	7.1	16.47	9.04	30	11	1.821
	5.9	7.4	16.05	9.43	31	11	1.813
	6.4	8.0	15.34	10.19	33	12	1.799
	6.7	8.3	14.93	10.57	34	12	1.793
	7.1	8.7	14.39	11.08	35	12	1.777
	7.5	9.2	13.85	11.72	37	13	1.776
	7.9	9.6	13.33	12.23	38	13	1.762
	8.3	10.0	12.82	12.74	39	14	1.749
	8.7	10.4	12.32	13.25	40	14	1.737
	9.1	10.7	11.82	13.63	41	14	1.734
	9.5	11.1	11.34	14.14	41	15	1.702
	9.9	11.5	10.87	14.65	42	15	1.693
	10.3	11.9	10.41	15.16	43	15	1.684
	10.7	12.2	9.95	15.54	44	15	1.682
	11.1	12.6	9.51	16.05	45	16	1.674
	11.5	12.9	9.08	16.43	45	16	1.654
	11.9	13.2	8.66	16.82	46	16	1.653
	12.3	13.6	8.24	17.32	47	16	1.647
	12.7	13.9	7.84	17.71	47	16	1.629
	13.1	14.2	7.45	18.09	47	17	1.611
	13.5	14.5	7.07	18.47	48	17	1.612
	14.3	15.1	6.33	19.24	49	17	1.595
	15.1	15.6	5.64	19.87	49	17	1.570
	15.9	16.1	4.99	20.51	50	17	1.561
	16.7	16.6	4.37	21.15	50	18	1.537
	17.5	17.0	3.80	21.66	51	18	1.534
	18.3	17.5	3.27	22.29	51	18	1.512
	19.1	17.9	2.78	22.80	51	18	1.495
	19.8	18.2	2.38	23.18	51	18	1.483
	20.6	18.5	1.96	23.57	52	18	1.485
	22.2	19.1	1.25	24.33	52	18	1.461
	23.0	19.3	0.95	24.59	52	18	1.454
	23.8	19.5	0.69	24.84	52	18	1.446
	24.6	19.7	0.48	25.10	52	18	1.439
	25.4	19.8	0.30	25.22	52	18	1.435
	27.0	20.0	0.07	25.48	52	18	1.428
60	2.3	3.3	24.11	4.20	18	6	2.070
	2.6	3.7	23.59	4.71	19	6	2.008

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
60	2.9	4.1	23.07	5.22	21	7	2.005
	3.2	4.5	22.56	5.73	23	8	2.003
	3.6	5.0	21.90	6.37	25	8	1.981
	4.0	5.5	21.24	7.01	28	9	1.998
	4.2	5.8	20.91	7.39	29	10	1.980
	4.5	6.2	20.43	7.90	31	10	1.980
	4.8	6.5	19.95	8.28	32	11	1.965
	5.0	6.8	19.63	8.66	33	11	1.952
	5.1	6.9	19.48	8.79	33	11	1.937
	5.6	7.5	18.70	9.55	36	12	1.941
	5.9	7.9	18.25	10.06	37	12	1.917
	6.4	8.5	17.50	10.83	39	13	1.897
	6.5	8.6	17.35	10.96	40	13	1.910
	6.7	8.8	17.06	11.21	40	13	1.888
	7.1	9.3	16.47	11.85	42	14	1.882
	7.5	9.7	15.90	12.36	43	14	1.865
	7.9	10.2	15.34	12.99	45	15	1.861
	8.3	10.6	14.79	13.50	46	15	1.845
	8.5	10.8	14.52	13.76	47	16	1.848
	8.7	11.0	14.25	14.01	47	16	1.831
	9.1	11.4	13.72	14.52	49	16	1.837
	9.5	11.8	13.20	15.03	50	17	1.824
	9.9	12.2	12.69	15.54	51	17	1.811
	10.3	12.6	12.19	16.05	52	17	1.800
	10.7	13.0	11.70	16.56	53	18	1.788
	11.1	13.4	11.22	17.07	54	18	1.778
	11.5	13.8	10.75	17.58	55	18	1.768
	11.9	14.1	10.29	17.96	55	18	1.749
	12.3	14.5	9.84	18.47	56	19	1.741
	12.7	14.8	9.40	18.85	57	19	1.738
	13.1	15.2	8.97	19.36	57	19	1.715
	13.5	15.5	8.55	19.75	58	19	1.713
	14.3	16.1	7.74	20.51	59	20	1.696
	15.1	16.7	6.97	21.27	60	20	1.679
	15.9	17.3	6.25	22.04	61	20	1.663
	16.7	17.8	5.56	22.68	61	20	1.640
	17.5	18.3	4.91	23.31	62	21	1.630
	18.3	18.8	4.30	23.95	62	21	1.609
	19.1	19.3	3.73	24.59	63	21	1.600
	19.8	19.6	3.27	24.97	63	21	1.588
	20.6	20.0	2.78	25.48	63	21	1.572

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60	22.2	20.7	1.91	26.37	63	21	1.545
	23.0	21.0	1.54	26.75	63	21	1.534
	23.8	21.2	1.21	27.01	63	21	1.527
	24.6	21.5	0.92	27.39	64	21	1.528
	25.4	21.7	0.66	27.64	64	21	1.521
	27.0	22.0	0.28	28.03	64	21	1.510
	28.6	22.1	0.06	28.15	63	21	1.495
63	2.3	3.4	26.79	4.33	20	6	2.149
	2.6	3.9	26.24	4.97	23	7	2.151
	2.9	4.3	25.70	5.48	25	8	2.135
	3.2	4.7	25.16	5.99	27	9	2.123
	3.6	5.3	24.45	6.75	30	9	2.108
	4.0	5.8	23.76	7.39	32	10	2.080
	4.5	6.5	22.90	8.28	36	11	2.085
	5.1	7.3	21.90	9.30	39	12	2.047
	5.6	7.9	21.07	10.06	42	13	2.043
	5.9	8.3	20.59	10.57	44	14	2.040
	6.4	8.9	19.79	11.34	46	15	2.013
	6.7	9.3	19.32	11.85	48	15	2.012
	7.1	9.8	18.70	12.48	50	16	2.001
	7.5	10.3	18.10	13.12	51	16	1.971
	7.9	10.7	17.50	13.63	53	17	1.971
	8.3	11.2	16.91	14.27	55	17	1.963
	8.7	11.7	16.33	14.90	56	18	1.938
	9.1	12.1	15.76	15.41	58	18	1.940
	9.5	12.5	15.21	15.92	59	19	1.925
	9.9	13.0	14.66	16.56	60	19	1.903
	10.3	13.4	14.12	17.07	62	20	1.905
	10.7	13.8	13.59	17.58	63	20	1.893
	11.1	14.2	13.07	18.09	64	20	1.880
	11.5	14.6	12.57	18.60	65	21	1.869
	11.9	15.0	12.07	19.11	66	21	1.858
	12.3	15.4	11.58	19.62	67	21	1.847
	12.7	15.8	11.10	20.13	68	21	1.837
	13.1	16.1	10.64	20.51	68	22	1.820
	13.5	16.5	10.18	21.02	69	22	1.811
	14.3	17.2	9.29	21.91	71	22	1.800
	15.1	17.8	8.45	22.68	72	23	1.781
	15.9	18.5	7.65	23.57	73	23	1.759
	16.7	19.1	6.88	24.33	74	23	1.744

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63	17.5	19.6	6.16	24.97	74	24	1.721
	18.3	20.2	5.47	25.73	75	24	1.707
	19.1	20.7	4.83	26.37	76	24	1.697
	19.8	21.1	4.30	26.88	76	24	1.681
	20.6	21.5	3.73	27.39	76	24	1.665
	21.4	22.0	3.20	28.03	77	24	1.657
	22.2	22.3	2.72	28.41	77	24	1.646
	23.0	22.7	2.27	28.92	77	24	1.631
	23.8	23.0	1.86	29.30	77	24	1.621
	24.6	23.3	1.50	29.68	77	24	1.610
	25.4	23.6	1.17	30.06	77	25	1.600
	27.0	24.0	0.64	30.57	77	25	1.587
	28.6	24.3	0.26	30.96	77	25	1.577
66	2.3	3.6	29.61	4.59	23	7	2.238
	2.6	4.1	29.03	5.22	26	8	2.231
	2.9	4.5	28.46	5.73	29	9	2.249
	3.2	5.0	27.90	6.37	31	9	2.206
	3.6	5.5	27.15	7.01	34	10	2.202
	4.0	6.1	26.42	7.77	37	11	2.182
	4.5	6.8	25.52	8.66	41	13	2.175
	5.1	7.7	24.45	9.81	46	14	2.165
	5.6	8.3	23.59	10.57	49	15	2.153
	5.9	8.7	23.07	11.08	51	15	2.145
	6.4	9.4	22.23	11.97	54	16	2.123
	6.7	9.8	21.73	12.48	56	17	2.118
	7.1	10.3	21.07	13.12	58	18	2.102
	7.5	10.8	20.43	13.76	60	18	2.088
	7.9	11.3	19.79	14.39	62	19	2.075
	8.3	11.8	19.17	15.03	64	19	2.063
	8.7	12.3	18.55	15.67	66	20	2.052
	9.1	12.8	17.95	16.31	68	20	2.041
	9.5	13.2	17.35	16.82	69	21	2.025
	9.9	13.7	16.76	17.45	71	21	2.017
	10.3	14.1	16.19	17.96	72	22	2.002
	10.7	14.6	15.62	18.60	74	22	1.994
	11.1	15.0	15.07	19.11	75	23	1.981
	11.5	15.5	14.52	19.75	77	23	1.974
	11.9	15.9	13.99	20.25	78	24	1.962
	12.3	16.3	13.46	20.76	79	24	1.950
	12.7	16.7	12.95	21.27	80	24	1.939

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66	13.1	17.1	12.44	21.78	81	24	1.928
	13.5	17.5	11.95	22.29	82	25	1.918
	14.3	18.2	10.99	23.18	83	25	1.892
	15.1	19.0	10.07	24.20	85	26	1.874
	15.9	19.6	9.19	24.97	86	26	1.855
	16.7	20.3	8.35	25.86	88	27	1.844
	17.5	20.9	7.55	26.62	88	27	1.818
	18.3	21.5	6.79	27.39	89	27	1.802
	19.1	22.1	6.07	28.15	90	27	1.788
	19.8	22.6	5.47	28.79	91	28	1.777
	20.6	23.1	4.83	29.43	91	28	1.758
	21.4	23.5	4.23	29.94	92	28	1.752
	22.2	24.0	3.66	30.57	92	28	1.734
	23.0	24.4	3.14	31.08	92	28	1.720
	23.8	24.8	2.66	31.59	93	28	1.715
	24.6	25.1	2.22	31.97	93	28	1.705
	25.4	25.4	1.81	32.36	93	28	1.695
	27.0	26.0	1.13	33.12	93	28	1.675
	28.6	26.4	0.61	33.63	93	28	1.662
	29.4	26.5	0.41	33.76	93	28	1.659
	30.2	26.7	0.25	34.01	93	28	1.653
70	2.3	3.8	33.59	4.84	28	8	2.405
	2.6	4.3	32.98	5.48	31	9	2.378
	2.9	4.8	32.37	6.11	34	10	2.359
	3.2	5.3	31.77	6.75	38	11	2.372
	3.6	5.9	30.97	7.52	42	12	2.363
	4.0	6.5	30.19	8.28	45	13	2.331
	4.5	7.3	29.22	9.30	50	14	2.318
	5.1	8.2	28.09	10.45	55	16	2.294
	5.6	8.9	27.15	11.34	59	17	2.281
	5.9	9.3	26.60	11.85	61	18	2.268
	6.4	10.0	25.70	12.74	65	19	2.258
	6.7	10.5	25.16	13.38	68	19	2.254
	7.1	11.0	24.45	14.01	70	20	2.235
	7.5	11.6	23.76	14.78	73	21	2.222
	7.9	12.1	23.07	15.41	75	22	2.206
	8.3	12.6	22.40	16.05	78	22	2.204
	8.7	13.2	21.73	16.82	81	23	2.194
	9.1	13.7	21.07	17.45	83	24	2.180
	9.5	14.2	20.43	18.09	85	24	2.167

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70	9.9	14.7	19.79	18.73	87	25	2.155
	10.3	15.2	19.17	19.36	89	25	2.144
	10.7	15.6	18.55	19.87	90	26	2.128
	11.1	16.1	17.95	20.51	92	26	2.118
	11.5	16.6	17.35	21.15	94	27	2.108
	11.9	17.1	16.76	21.78	96	27	2.099
	12.3	17.5	16.19	22.29	97	28	2.086
	12.7	17.9	15.62	22.80	98	28	2.073
	13.1	18.4	15.07	23.44	100	29	2.065
	13.5	18.8	14.52	23.95	101	29	2.053
	14.3	19.6	13.46	24.97	103	30	2.031
	15.1	20.4	12.44	25.99	105	30	2.009
	15.9	21.2	11.46	27.01	107	31	1.990
	17.5	22.7	9.62	28.92	111	32	1.959
	18.3	23.3	8.76	29.68	112	32	1.942
	19.1	24.0	7.94	30.57	113	32	1.922
	19.8	24.5	7.26	31.21	114	32	1.911
	20.6	25.1	6.51	31.97	114	33	1.888
	21.4	25.6	5.81	32.61	115	33	1.878
	22.2	26.2	5.15	33.38	116	33	1.864
	23.0	26.7	4.52	34.01	116	33	1.846
	23.8	27.1	3.94	34.52	117	33	1.840
	25.4	27.9	2.90	35.54	117	33	1.814
	27.0	28.6	2.01	36.43	117	34	1.792
	28.6	29.2	1.29	37.20	118	34	1.781
	29.4	29.4	0.99	37.45	118	34	1.775
	30.2	29.6	0.72	37.71	118	34	1.768
73	2.6	4.5	36.10	5.73	36	10	2.506
	2.9	5.0	35.47	6.37	39	11	2.474
	3.2	5.5	34.84	7.01	43	12	2.476
	3.6	6.2	34.00	7.90	48	13	2.464
	4.0	6.8	33.18	8.66	52	14	2.450
	4.5	7.6	32.17	9.68	57	16	2.426
	5.1	8.5	30.97	10.83	63	17	2.411
	5.5	9.2	30.19	11.72	67	18	2.391
	5.6	9.3	30.00	11.85	68	19	2.395
	6.3	10.4	28.65	13.25	74	20	2.363
	6.4	10.5	28.46	13.38	75	21	2.367
	6.7	11.0	27.90	14.01	78	21	2.359
	7.0	11.4	27.34	14.52	80	22	2.347

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73	7.1	11.5	27.15	14.65	80	22	2.336
	7.5	12.1	26.42	15.41	84	23	2.334
	7.8	12.5	25.88	15.92	86	24	2.324
	7.9	12.7	25.70	16.18	87	24	2.318
	8.3	13.2	24.98	16.82	89	25	2.300
	8.6	13.7	24.45	17.45	92	25	2.296
	8.7	13.8	24.28	17.58	93	25	2.300
	9.1	14.3	23.59	18.22	95	26	2.283
	9.2	14.5	23.41	18.47	96	26	2.279
	9.5	14.9	22.90	18.98	98	27	2.272
	9.9	15.4	22.23	19.62	100	27	2.257
	10.0	15.5	22.06	19.75	100	28	2.250
	10.3	15.9	21.57	20.25	102	28	2.244
	10.7	16.4	20.91	20.89	104	29	2.231
	11.1	16.9	20.27	21.53	106	29	2.218
	11.2	17.1	20.11	21.78	107	29	2.216
	11.5	17.4	19.63	22.17	108	30	2.207
	11.9	17.9	19.01	22.80	110	30	2.196
	12.3	18.4	18.40	23.44	112	31	2.185
	12.7	18.9	17.80	24.08	114	31	2.175
	13.1	19.4	17.20	24.71	116	32	2.166
	13.5	19.8	16.62	25.22	117	32	2.153
	14.3	20.7	15.48	26.37	120	33	2.133
	15.1	21.6	14.39	27.52	123	34	2.114
	15.9	22.4	13.33	28.54	125	34	2.092
	16.7	23.2	12.32	29.55	127	35	2.073
	17.5	24.0	11.34	30.57	129	35	2.054
	18.3	24.7	10.41	31.46	131	36	2.040
	18.5	24.9	10.18	31.72	131	36	2.032
	19.1	25.4	9.51	32.36	132	36	2.019
	19.8	26.0	8.76	33.12	133	37	2.003
	20.6	26.6	7.94	33.89	134	37	1.988
	21.4	27.2	7.16	34.65	135	37	1.973
	22.2	27.8	6.42	35.41	136	37	1.959
	23.0	28.4	5.73	36.18	137	37	1.946
	23.8	28.9	5.07	36.82	137	38	1.928
	24.6	29.4	4.45	37.45	138	38	1.919
	25.4	29.8	3.87	37.96	138	38	1.906
75	8.3	13.7	26.79	17.45	99	26	2.381
	8.7	14.2	26.06	18.09	101	27	2.362

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75	9.1	14.8	25.34	18.85	104	28	2.348
	9.5	15.3	24.63	19.49	107	29	2.343
	10.3	16.4	23.24	20.89	112	30	2.315
76	2.3	4.2	40.04	5.35	36	10	2.594
	2.6	4.7	39.37	5.99	40	11	2.584
	2.9	5.2	38.70	6.62	44	12	2.578
	3.2	5.7	38.05	7.26	48	13	2.571
	3.6	6.4	37.18	8.15	54	14	2.574
	4.5	7.9	35.26	10.06	65	17	2.541
	5.1	8.9	34.00	11.34	72	19	2.519
	5.6	9.7	32.98	12.36	77	20	2.495
	5.9	10.2	32.37	12.99	80	21	2.481
	6.4	11.0	31.37	14.01	86	22	2.477
	6.7	11.5	30.78	14.65	89	23	2.464
	7.1	12.1	30.00	15.41	92	24	2.443
	7.5	12.7	29.22	16.18	96	25	2.435
	7.9	13.3	28.46	16.94	100	26	2.429
	8.3	13.9	27.71	17.71	103	27	2.411
	8.7	14.4	26.97	18.34	106	28	2.404
	9.1	15.0	26.24	19.11	109	29	2.388
	9.5	15.6	25.52	19.87	112	29	2.374
	9.9	16.1	24.81	20.51	115	30	2.367
	10.3	16.7	24.11	21.27	118	31	2.355
	10.7	17.2	23.41	21.91	120	32	2.340
	11.1	17.8	22.73	22.68	123	32	2.328
	11.5	18.3	22.06	23.31	125	33	2.315
	11.9	18.8	21.40	23.95	127	34	2.302
	12.3	19.3	20.75	24.59	129	34	2.290
	12.7	19.8	20.11	25.22	131	35	2.279
	13.1	20.3	19.48	25.86	133	35	2.267
	13.5	20.8	18.86	26.50	135	36	2.256
	14.3	21.8	17.65	27.77	139	37	2.237
	15.1	22.7	16.47	28.92	142	37	2.215
	15.9	23.6	15.34	30.06	145	38	2.196
	17.5	25.2	13.20	32.10	150	39	2.161
	18.3	26.0	12.19	33.12	152	40	2.142
	19.1	26.8	11.22	34.14	154	40	2.123
	19.8	27.4	10.41	34.90	155	41	2.107
	20.6	28.1	9.51	35.80	156	41	2.087
	21.4	28.8	8.66	36.69	158	42	2.075

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Ø mm	Wall-thicknes mm	G kg/m	A cm2	S cm2	I cm4	I/V cm3	ρ cm
76	22.2	29.5	7.84	37.58	159	42	2.056
	23.0	30.1	7.07	38.34	160	42	2.042
	23.8	30.6	6.33	38.98	160	42	2.026
	24.6	31.2	5.64	39.75	161	42	2.012
	25.4	31.7	4.99	40.38	162	43	2.002
	27.0	32.6	3.80	41.53	162	43	1.975
	28.6	33.4	2.78	42.55	163	43	1.957
	29.4	33.8	2.32	43.06	163	43	1.945
	30.2	34.1	1.91	43.44	163	43	1.937
80	4.5	8.4	39.59	10.70	77	19	2.682
	5.9	10.8	36.53	13.76	95	24	2.627
	6.4	11.6	35.47	14.78	101	25	2.614
	7.5	13.4	33.18	17.07	113	28	2.572
	8.0	14.2	32.17	18.09	119	30	2.564
	10.3	17.7	27.71	22.55	140	35	2.491
	10.7	18.3	26.97	23.31	143	36	2.476
	11.1	18.9	26.24	24.08	147	37	2.470
	11.5	19.4	25.52	24.71	149	37	2.455
	11.9	20.0	24.81	25.48	152	38	2.442
82	12.3	20.5	24.11	26.11	155	39	2.436
	12.7	21.1	23.41	26.88	158	39	2.424
	2.3	4.5	47.05	5.73	46	11	2.833
	2.6	5.1	46.32	6.50	51	12	2.801
	2.9	5.7	45.60	7.26	57	14	2.801
	3.2	6.2	44.89	7.90	61	15	2.778
	3.6	7.0	43.94	8.92	69	17	2.781
	4.0	7.7	43.01	9.81	75	18	2.764
	4.5	8.6	41.85	10.96	83	20	2.751
82	5.1	9.7	40.49	12.36	92	22	2.728
	5.6	10.6	39.37	13.50	99	24	2.707
	5.9	11.1	38.70	14.14	103	25	2.698
	6.4	11.9	37.61	15.16	109	27	2.681
	6.7	12.4	36.96	15.80	113	28	2.674
	7.1	13.1	36.10	16.69	118	29	2.658
	7.5	13.8	35.26	17.58	123	30	2.645
	7.9	14.4	34.42	18.34	127	31	2.631
	8.3	15.1	33.59	19.24	132	32	2.619
	8.7	15.7	32.78	20.00	136	33	2.607
82	9.1	16.4	31.97	20.89	141	34	2.598

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
82	9.5	17.0	31.17	21.66	145	35	2.587
	9.9	17.6	30.39	22.42	148	36	2.569
	10.3	18.2	29.61	23.18	152	37	2.560
	10.7	18.8	28.84	23.95	156	38	2.552
	11.1	19.4	28.09	24.71	159	39	2.536
	11.5	20.0	27.34	25.48	163	40	2.529
	11.9	20.6	26.60	26.24	166	40	2.515
	12.3	21.1	25.88	26.88	168	41	2.500
	12.7	21.7	25.16	27.64	171	42	2.487
	13.1	22.3	24.45	28.41	175	43	2.481
	13.5	22.8	23.76	29.04	177	43	2.468
	14.3	23.9	22.40	30.45	182	44	2.444
	15.1	24.9	21.07	31.72	186	46	2.421
	15.9	25.9	19.79	32.99	191	47	2.406
	16.7	26.9	18.55	34.27	195	47	2.385
	17.5	27.8	17.35	35.41	198	48	2.364
	18.3	28.7	16.19	36.56	201	49	2.344
	19.1	29.6	15.07	37.71	204	50	2.325
	19.8	30.4	14.12	38.73	206	50	2.306
	20.6	31.2	13.07	39.75	208	51	2.287
	21.4	32.0	12.07	40.76	210	51	2.269
	22.2	32.7	11.10	41.66	212	52	2.255
	23.0	33.5	10.18	42.68	214	52	2.239
	23.8	34.2	9.29	43.57	215	52	2.221
	24.6	34.8	8.45	44.33	216	53	2.207
	25.4	35.5	7.65	45.22	218	53	2.195
	27.0	36.6	6.16	46.62	219	53	2.167
	28.6	37.7	4.83	48.03	220	54	2.140
	30.2	38.6	3.66	49.17	221	54	2.120
	31.8	39.4	2.66	50.19	222	54	2.103
	33.3	40.0	1.86	50.96	222	54	2.087
	34.9	40.5	1.17	51.59	222	54	2.074
	38.1	41.2	0.26	52.48	222	54	2.056
	40.0	41.4	0.03	52.74	222	54	2.051
85	1.5	3.1	52.81	3.95	34	8	2.933
	2.0	4.1	51.53	5.22	45	11	2.936
	2.3	4.7	50.77	5.99	51	12	2.917
	2.6	5.3	50.01	6.75	57	13	2.905
	2.9	5.9	49.27	7.52	63	15	2.894
	3.2	6.5	48.52	8.28	69	16	2.886

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85	3.6	7.2	47.54	9.17	76	18	2.878
	4.0	8.0	46.57	10.19	84	20	2.871
	4.5	8.9	45.36	11.34	92	22	2.848
	5.1	10.0	43.94	12.74	102	24	2.829
	5.6	11.0	42.78	14.01	111	26	2.814
	5.9	11.5	42.08	14.65	115	27	2.801
	6.4	12.4	40.94	15.80	123	29	2.790
	6.7	12.9	40.26	16.43	127	30	2.780
	7.1	13.6	39.37	17.32	132	31	2.760
	7.5	14.3	38.48	18.22	138	33	2.752
	7.9	15.0	37.61	19.11	143	34	2.735
	8.3	15.7	36.75	20.00	149	35	2.729
	8.7	16.4	35.89	20.89	154	36	2.715
	9.1	17.0	35.05	21.66	158	37	2.700
	9.5	17.7	34.21	22.55	163	38	2.688
	9.9	18.3	33.39	23.31	167	39	2.676
	10.3	19.0	32.57	24.20	172	40	2.665
	10.7	19.6	31.77	24.97	176	41	2.654
	11.1	20.2	30.97	25.73	180	42	2.644
	11.5	20.8	30.19	26.50	183	43	2.627
	11.9	21.5	29.42	27.39	188	44	2.619
	12.3	22.1	28.65	28.15	191	45	2.604
	12.7	22.6	27.90	28.79	194	46	2.595
	13.1	23.2	27.15	29.55	197	46	2.582
	13.5	23.8	26.42	30.32	201	47	2.574
	14.3	24.9	24.98	31.72	206	49	2.548
	15.1	26.0	23.59	33.12	212	50	2.530
	15.9	27.1	22.23	34.52	217	51	2.507
	16.7	28.1	20.91	35.80	221	52	2.484
	17.5	29.1	19.63	37.07	225	53	2.463
	18.3	30.1	18.40	38.34	229	54	2.443
	19.1	31.0	17.20	39.49	232	55	2.423
	19.8	31.8	16.19	40.51	235	55	2.408
	20.6	32.7	15.07	41.66	238	56	2.390
	22.2	34.4	12.95	43.82	243	57	2.354
	23.0	35.2	11.95	44.84	245	58	2.337
	23.8	35.9	10.99	45.73	246	58	2.319
	24.6	36.6	10.07	46.62	248	58	2.306
	25.4	37.3	9.19	47.52	249	59	2.289
	27.0	38.6	7.55	49.17	252	59	2.263
	28.6	39.8	6.07	50.70	253	60	2.233

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85	29.4	40.3	5.39	51.34	254	60	2.224
	30.2	40.8	4.75	51.97	254	60	2.210
	31.8	41.7	3.60	53.12	255	60	2.190
	33.3	42.5	2.66	54.14	256	60	2.174
	34.9	43.1	1.81	54.90	256	60	2.159
	38.1	44.1	0.61	56.18	256	60	2.134
	40.0	44.4	0.20	56.56	256	60	2.127
89	2.6	5.5	55.15	7.01	65	15	3.044
	2.9	6.2	54.37	7.90	73	16	3.039
	3.2	6.8	53.59	8.66	80	18	3.039
	3.6	7.6	52.55	9.68	88	20	3.015
	4.0	8.4	51.53	10.70	97	22	3.010
	4.5	9.4	50.27	11.97	107	24	2.989
	5.1	10.6	48.77	13.50	119	27	2.969
	5.5	11.3	47.78	14.39	126	28	2.959
	5.6	11.5	47.54	14.65	128	29	2.955
	5.9	12.1	46.81	15.41	134	30	2.948
	6.1	12.5	46.32	15.92	138	31	2.944
	6.3	12.8	45.84	16.31	140	32	2.929
	6.4	13.0	45.60	16.56	142	32	2.928
	6.5	13.2	45.36	16.82	144	32	2.925
	6.7	13.6	44.89	17.32	148	33	2.923
	6.8	13.8	44.65	17.58	149	34	2.911
	7.0	14.2	44.18	18.09	153	34	2.908
	7.1	14.3	43.94	18.22	154	35	2.907
	7.3	14.7	43.47	18.73	158	35	2.904
	7.5	15.1	43.01	19.24	161	36	2.892
	7.9	15.8	42.08	20.13	167	38	2.880
	8.0	16.0	41.85	20.38	169	38	2.879
	8.3	16.5	41.17	21.02	173	39	2.868
	8.5	16.9	40.72	21.53	176	40	2.859
	8.7	17.2	40.26	21.91	179	40	2.858
	8.8	17.4	40.04	22.17	180	41	2.849
	9.0	17.8	39.59	22.68	184	41	2.848
	9.1	17.9	39.37	22.80	184	41	2.840
	9.3	18.3	38.93	23.31	188	42	2.839
	9.5	18.6	38.48	23.69	190	43	2.831
	9.9	19.3	37.61	24.59	195	44	2.816
	10.0	19.5	37.39	24.84	197	44	2.816
	10.3	20.0	36.75	25.48	201	45	2.808

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
89	10.5	20.3	36.32	25.86	203	46	2.801
	10.7	20.7	35.89	26.37	206	46	2.794
	10.9	21.0	35.47	26.75	208	47	2.788
	11.1	21.3	35.05	27.13	210	47	2.782
	11.4	21.8	34.42	27.77	214	48	2.775
	11.5	22.0	34.21	28.03	215	48	2.769
	11.9	22.6	33.39	28.79	219	49	2.758
	12.1	22.9	32.98	29.17	221	50	2.752
	12.3	23.3	32.57	29.68	224	50	2.747
	12.5	23.6	32.17	30.06	226	51	2.741
	12.7	23.9	31.77	30.45	228	51	2.736
	13.1	24.5	30.97	31.21	231	52	2.720
	13.5	25.1	30.19	31.97	235	53	2.711
	14.3	26.3	28.65	33.50	242	55	2.687
	15.1	27.5	27.15	35.03	249	56	2.666
	15.9	28.7	25.70	36.56	256	57	2.646
	16.7	29.8	24.28	37.96	261	59	2.622
	17.5	30.9	22.90	39.36	267	60	2.604
	18.3	31.9	21.57	40.64	271	61	2.582
	19.1	32.9	20.27	41.91	275	62	2.561
	19.8	33.8	19.17	43.06	279	63	2.545
	20.6	34.7	17.95	44.20	282	63	2.525
	21.4	35.7	16.76	45.48	286	64	2.507
	22.2	36.6	15.62	46.62	289	65	2.489
	23.0	37.4	14.52	47.64	291	65	2.471
	23.8	38.3	13.46	48.79	294	66	2.454
	25.4	39.8	11.46	50.70	297	67	2.420
	27.0	41.3	9.62	52.61	301	68	2.391
	28.6	42.6	7.94	54.27	303	68	2.362
	30.2	43.8	6.42	55.80	305	68	2.337
	31.8	44.9	5.07	57.20	306	69	2.313
	33.3	45.7	3.94	58.22	306	69	2.292
	34.9	46.6	2.90	59.36	308	69	2.277
	38.1	47.8	1.29	60.89	308	69	2.248
	40.0	48.3	0.64	61.53	308	69	2.237
95	2.3	5.3	64.18	6.75	73	15	3.288
	2.6	5.9	63.33	7.52	80	17	3.261
	2.9	6.6	62.49	8.41	89	19	3.253
	3.2	7.2	61.65	9.17	97	20	3.252
	3.6	8.1	60.55	10.32	108	23	3.234

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95	4.0	9.0	59.45	11.46	119	25	3.222
	4.5	10.0	58.09	12.74	131	28	3.206
	5.1	11.3	56.48	14.39	146	31	3.185
	5.6	12.3	55.15	15.67	157	33	3.165
	5.9	13.0	54.37	16.56	165	35	3.156
	6.4	14.0	53.07	17.83	176	37	3.141
	6.7	14.6	52.30	18.60	182	38	3.128
	7.1	15.4	51.28	19.62	191	40	3.120
	7.5	16.2	50.27	20.64	199	42	3.104
	7.9	17.0	49.27	21.66	207	44	3.091
	8.3	17.7	48.27	22.55	214	45	3.080
	8.7	18.5	47.29	23.57	222	47	3.069
	9.1	19.3	46.32	24.59	229	48	3.051
	9.5	20.0	45.36	25.48	236	50	3.043
	9.9	20.8	44.41	26.50	243	51	3.028
	10.3	21.5	43.47	27.39	249	53	3.015
	10.7	22.2	42.54	28.28	255	54	3.002
	11.1	23.0	41.62	29.30	262	55	2.990
	11.5	23.7	40.72	30.19	268	56	2.979
	11.9	24.4	39.82	31.08	274	58	2.969
	12.3	25.1	38.93	31.97	279	59	2.954
	12.7	25.8	38.05	32.87	285	60	2.944
	13.1	26.5	37.18	33.76	290	61	2.930
	13.5	27.1	36.32	34.52	294	62	2.918
	14.3	28.5	34.63	36.31	305	64	2.898
	15.1	29.8	32.98	37.96	314	66	2.876
	15.9	31.0	31.37	39.49	321	68	2.851
	16.7	32.2	29.80	41.02	329	69	2.831
	17.5	33.4	28.27	42.55	336	71	2.810
	18.3	34.6	26.79	44.08	343	72	2.789
	19.1	35.8	25.34	45.61	349	73	2.766
	19.8	36.7	24.11	46.75	353	74	2.747
	20.6	37.8	22.73	48.15	359	76	2.730
	21.4	38.8	21.40	49.43	363	77	2.709
	22.2	39.9	20.11	50.83	368	77	2.690
	23.0	40.8	18.86	51.97	371	78	2.671
	23.8	41.8	17.65	53.25	375	79	2.653
	24.6	42.7	16.47	54.39	378	80	2.636
	25.4	43.6	15.34	55.54	381	80	2.619
	27.0	45.3	13.20	57.71	386	81	2.586
	28.6	46.8	11.22	59.62	390	82	2.557

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95	29.4	47.6	10.29	60.64	392	82	2.542
	30.2	48.3	9.40	61.53	393	83	2.527
	31.8	49.6	7.74	63.18	395	83	2.500
	33.3	50.7	6.33	64.59	397	84	2.479
	34.9	51.7	4.99	65.86	398	84	2.458
	36.5	52.7	3.80	67.13	399	84	2.438
	38.1	53.5	2.78	68.15	399	84	2.419
	40.0	54.3	1.77	69.17	400	84	2.404
101	2.9	7.0	71.18	8.92	107	21	3.463
	3.2	7.7	70.29	9.81	117	23	3.453
	3.6	8.6	69.10	10.96	130	26	3.443
	4.0	9.6	67.93	12.23	144	28	3.431
	4.5	10.7	66.48	13.63	159	32	3.415
	5.1	12.1	64.75	15.41	178	35	3.398
	5.6	13.2	63.33	16.82	192	38	3.378
	5.7	13.4	63.05	17.07	194	39	3.371
	6.4	14.9	61.10	18.98	213	42	3.349
	6.5	15.1	60.82	19.24	216	43	3.350
	6.7	15.6	60.27	19.87	222	44	3.342
	7.0	16.2	59.45	20.64	229	45	3.330
	7.1	16.4	59.17	20.89	232	46	3.332
	7.5	17.3	58.09	22.04	242	48	3.313
	7.9	18.1	57.01	23.06	252	50	3.305
	8.3	19.0	55.95	24.20	262	52	3.290
	8.4	19.2	55.68	24.46	264	52	3.285
	8.7	19.8	54.89	25.22	271	54	3.277
	9.0	20.4	54.11	25.99	278	55	3.270
	9.1	20.6	53.85	26.24	280	55	3.266
	9.2	20.8	53.59	26.50	282	56	3.262
	9.5	21.4	52.81	27.26	288	57	3.250
	9.9	22.2	51.78	28.28	297	59	3.240
	10.3	23.0	50.77	29.30	305	61	3.226
	10.6	23.6	50.01	30.06	311	62	3.216
	10.7	23.8	49.76	30.32	313	62	3.212
	11.0	24.4	49.02	31.08	319	63	3.203
	11.1	24.6	48.77	31.34	321	64	3.200
	11.5	25.4	47.78	32.36	329	65	3.188
	11.9	26.1	46.81	33.25	336	67	3.178
	12.3	26.9	45.84	34.27	344	68	3.168
	12.5	27.3	45.36	34.78	347	69	3.158

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
101	12.7	27.7	44.89	35.29	351	69	3.153
	13.1	28.4	43.94	36.18	357	71	3.141
	13.5	29.1	43.01	37.07	363	72	3.129
	14.3	30.6	41.17	38.98	376	74	3.105
	15.1	32.0	39.37	40.76	388	77	3.085
	15.5	32.7	38.48	41.66	393	78	3.071
	15.9	33.4	37.61	42.55	399	79	3.062
	17.5	36.0	34.21	45.86	417	83	3.015
	18.3	37.3	32.57	47.52	426	84	2.994
	19.1	38.6	30.97	49.17	435	86	2.974
	19.8	39.7	29.61	50.57	442	87	2.956
	20.6	40.8	28.09	51.97	447	89	2.932
	21.4	42.0	26.60	53.50	454	90	2.913
	22.2	43.1	25.16	54.90	460	91	2.894
	23.0	44.2	23.76	56.31	465	92	2.873
	23.8	45.3	22.40	57.71	471	93	2.856
	24.6	46.4	21.07	59.11	476	94	2.837
	25.4	47.4	19.79	60.38	480	95	2.819
	27.0	49.3	17.35	62.80	487	96	2.784
	28.6	51.1	15.07	65.10	493	98	2.751
105	30.2	52.7	12.95	67.13	497	99	2.721
	31.8	54.3	10.99	69.17	501	99	2.691
	33.3	55.6	9.29	70.83	504	100	2.667
	34.9	56.9	7.65	72.48	506	100	2.642
	36.5	58.1	6.16	74.01	508	101	2.619
	38.1	59.1	4.83	75.29	509	101	2.600
	40.0	60.2	3.46	76.69	510	101	2.578
	20.0	41.9	33.18	53.38	509	97	3.087
108	2.0	5.2	84.95	6.62	93	17	3.748
	2.3	6.0	83.97	7.64	107	20	3.742
	2.6	6.8	83.00	8.66	120	22	3.722
	2.9	7.5	82.03	9.55	132	25	3.717
	3.2	8.3	81.07	10.57	145	27	3.703
	3.6	9.3	79.80	11.85	162	30	3.697
	4.0	10.3	78.54	13.12	178	33	3.683
	4.5	11.5	76.98	14.65	197	36	3.667
	5.1	12.9	75.12	16.43	218	41	3.642
	5.6	14.1	73.59	17.96	236	44	3.624
	5.9	14.9	72.68	18.98	248	46	3.614

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
108	6.4	16.0	71.18	20.38	264	49	3.599
	6.7	16.7	70.29	21.27	274	51	3.589
	7.1	17.7	69.10	22.55	288	53	3.573
	7.5	18.6	67.93	23.69	301	56	3.564
	7.9	19.5	66.77	24.84	313	58	3.549
	8.3	20.4	65.61	25.99	325	60	3.536
	8.7	21.3	64.47	27.13	337	62	3.524
	9.1	22.2	63.33	28.28	349	65	3.512
	9.5	23.1	62.21	29.43	360	67	3.497
	9.9	24.0	61.10	30.57	371	69	3.483
	10.3	24.8	59.99	31.59	381	71	3.472
	10.7	25.7	58.90	32.74	392	73	3.460
	11.1	26.5	57.82	33.76	401	74	3.446
	11.5	27.4	56.74	34.90	412	76	3.435
	11.9	28.2	55.68	35.92	421	78	3.423
	12.3	29.0	54.63	36.94	430	80	3.411
	12.7	29.8	53.59	37.96	439	81	3.400
	13.1	30.7	52.55	39.11	449	83	3.388
	13.5	31.5	51.53	40.13	457	85	3.374
	14.3	33.0	49.51	42.04	472	88	3.350
	14.7	33.8	48.52	43.06	480	89	3.338
	15.1	34.6	47.54	44.08	488	90	3.327
	15.5	35.4	46.57	45.10	496	92	3.316
	15.9	36.1	45.60	45.99	502	93	3.303
	16.7	37.6	43.71	47.90	516	96	3.282
	17.5	39.1	41.85	49.81	529	98	3.258
	18.3	40.5	40.04	51.59	540	100	3.235
	19.1	41.9	38.26	53.38	552	102	3.215
	19.8	43.1	36.75	54.90	561	104	3.196
	20.6	44.4	35.05	56.56	570	106	3.174
	22.2	47.0	31.77	59.87	588	109	3.133
	23.0	48.2	30.19	61.40	595	110	3.113
	23.8	49.4	28.65	62.93	602	112	3.092
	24.6	50.6	27.15	64.46	609	113	3.073
	25.4	51.7	25.70	65.86	615	114	3.055
	27.0	53.9	22.90	68.66	626	116	3.019
	28.6	56.0	20.27	71.34	635	118	2.983
	29.4	57.0	19.01	72.61	639	118	2.966
	30.2	57.9	17.80	73.76	642	119	2.950
	31.8	59.8	15.48	76.18	649	120	2.918
	33.3	61.3	13.46	78.09	653	121	2.891

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108	34.9	62.9	11.46	80.13	657	122	2.863
	36.5	64.4	9.62	82.04	661	122	2.838
	38.1	65.7	7.94	83.69	663	123	2.814
	40.0	67.1	6.16	85.48	665	123	2.789
	45.0	69.9	2.54	89.04	667	124	2.736
	47.0	70.7	1.54	90.06	668	124	2.723
	47.5	70.9	1.33	90.32	668	124	2.719
110	2.0	5.3	88.25	6.75	98	18	3.810
	25.4	53.0	27.53	67.52	659	120	3.124
114	2.9	7.9	91.95	10.06	155	27	3.925
	3.2	8.7	90.93	11.08	170	30	3.917
	3.6	9.8	89.58	12.48	190	33	3.901
	4.0	10.9	88.25	13.89	210	37	3.888
	4.5	12.2	86.59	15.54	233	41	3.872
	4.8	12.9	85.60	16.43	245	43	3.861
	5.1	13.7	84.62	17.45	259	45	3.852
	5.2	14.0	84.30	17.83	264	46	3.847
	5.6	15.0	83.00	19.11	281	49	3.834
	5.7	15.2	82.68	19.36	285	50	3.836
	5.9	15.7	82.03	20.00	293	51	3.827
	6.4	17.0	80.44	21.66	315	55	3.813
	6.7	17.7	79.49	22.55	326	57	3.802
	6.9	18.2	78.85	23.18	334	59	3.795
	7.0	18.5	78.54	23.57	339	59	3.792
	7.1	18.7	78.23	23.82	342	60	3.789
	7.4	19.5	77.29	24.84	355	62	3.780
	7.5	19.7	76.98	25.10	358	63	3.776
	7.9	20.7	75.74	26.37	373	65	3.760
	8.0	20.9	75.43	26.62	376	66	3.758
	8.3	21.6	74.51	27.52	387	68	3.750
	8.5	22.1	73.90	28.15	394	69	3.741
	8.6	22.4	73.59	28.54	399	70	3.738
	8.7	22.6	73.29	28.79	402	70	3.736
	9.0	23.3	72.38	29.68	412	72	3.725
	9.1	23.5	72.08	29.94	415	73	3.723
	9.5	24.5	70.88	31.21	430	75	3.711
	9.9	25.4	69.69	32.36	442	78	3.695
	10.3	26.3	68.51	33.50	455	80	3.685
	10.5	26.8	67.93	34.14	462	81	3.678

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114	10.7	27.3	67.35	34.78	469	82	3.672
	11.1	28.2	66.19	35.92	481	84	3.659
	11.5	29.1	65.04	37.07	493	86	3.646
	11.9	30.0	63.90	38.22	505	88	3.634
	12.3	30.8	62.77	39.24	515	90	3.622
	12.7	31.7	61.65	40.38	526	92	3.609
	13.1	32.6	60.55	41.53	537	94	3.595
	13.5	33.5	59.45	42.68	549	96	3.586
	14.3	35.2	57.28	44.84	569	100	3.562
	15.1	36.8	55.15	46.88	587	103	3.538
	15.9	38.5	53.07	49.04	605	106	3.512
	16.7	40.1	51.02	51.08	622	109	3.489
	17.3	41.3	49.51	52.61	635	111	3.474
	17.5	41.6	49.02	52.99	637	112	3.467
	18.3	43.2	47.05	55.03	653	115	3.444
	19.1	44.7	45.13	56.94	667	117	3.422
	19.8	46.0	43.47	58.60	679	119	3.403
	20.6	47.5	41.62	60.51	692	121	3.381
	21.4	48.9	39.82	62.29	703	123	3.359
	22.2	50.3	38.05	64.08	715	125	3.340
	23.0	51.6	36.32	65.73	724	127	3.318
	23.8	52.9	34.63	67.39	733	129	3.298
	24.6	54.2	32.98	69.04	742	130	3.278
	25.4	55.5	31.37	70.70	751	132	3.259
	27.0	57.9	28.27	73.76	765	134	3.220
	28.6	60.2	25.34	76.69	778	136	3.185
	29.4	61.3	23.93	78.09	783	137	3.166
	30.2	62.4	22.56	79.49	788	138	3.148
	31.8	64.5	19.95	82.17	798	140	3.116
	33.3	66.3	17.65	84.46	805	141	3.087
117	2.3	6.5	99.23	8.28	136	23	4.052
	2.6	7.3	98.17	9.30	152	26	4.042
	2.9	8.2	97.12	10.45	170	29	4.033
	3.2	9.0	96.07	11.46	186	32	4.028
	3.6	10.1	94.69	12.87	207	35	4.010
	4.0	11.1	93.31	14.14	226	39	3.997
	4.5	12.5	91.61	15.92	252	43	3.978
	5.1	14.1	89.58	17.96	282	48	3.962
	5.6	15.4	87.91	19.62	305	52	3.942
	5.9	16.2	86.92	20.64	319	54	3.931

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117	6.3	17.2	85.60	21.91	337	58	3.921
	6.4	17.5	85.28	22.29	342	58	3.917
	6.7	18.2	84.30	23.18	354	61	3.907
	7.1	19.2	83.00	24.46	371	64	3.894
	7.5	20.3	81.71	25.86	389	66	3.878
	7.9	21.3	80.44	27.13	406	69	3.868
	8.3	22.3	79.17	28.41	422	72	3.854
	8.7	23.2	77.91	29.55	436	75	3.841
	9.1	24.2	76.67	30.83	452	77	3.828
	9.5	25.2	75.43	32.10	467	80	3.814
	9.9	26.1	74.20	33.25	481	82	3.803
	10.3	27.1	72.99	34.52	496	85	3.790
	10.7	28.1	71.78	35.80	511	87	3.778
	11.1	29.0	70.58	36.94	524	89	3.766
	11.5	29.9	69.40	38.09	536	92	3.751
	11.9	30.8	68.22	39.24	549	94	3.740
	12.3	31.8	67.06	40.51	563	96	3.728
	12.7	32.7	65.90	41.66	575	98	3.715
	13.1	33.6	64.75	42.80	587	100	3.703
	13.5	34.5	63.62	43.95	599	102	3.691
	14.3	36.2	61.38	46.11	620	106	3.666
	15.1	37.9	59.17	48.28	640	110	3.640
	15.9	39.6	57.01	50.45	661	113	3.619
	16.7	41.3	54.89	52.61	680	116	3.595
	17.5	42.9	52.81	54.65	697	119	3.571
	18.3	44.5	50.77	56.69	714	122	3.548
	19.1	46.1	48.77	58.73	730	125	3.525
	19.8	47.5	47.05	60.51	744	127	3.506
	20.6	49.0	45.13	62.42	758	130	3.484
	21.4	50.5	43.24	64.33	772	132	3.464
	22.2	51.9	41.40	66.11	783	134	3.441
	23.0	53.3	39.59	67.90	795	136	3.421
	23.8	54.7	37.83	69.68	806	138	3.401
	24.6	56.1	36.10	71.46	817	140	3.381
	25.4	57.4	34.42	73.12	826	141	3.360
	27.0	59.9	31.17	76.31	842	144	3.321
	28.6	62.4	28.09	79.49	858	147	3.285
	29.4	63.5	26.60	80.89	863	148	3.266
	30.2	64.6	25.16	82.29	869	149	3.249
	31.8	66.8	22.40	85.10	880	150	3.215
	33.3	68.7	19.95	87.52	888	152	3.185

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117	34.9	70.7	17.50	90.06	896	153	3.154
	36.5	72.5	15.21	92.36	902	154	3.125
	38.1	74.1	13.07	94.39	906	155	3.098
	40.0	76.0	10.75	96.82	911	156	3.067
121	2.3	6.7	106.41	8.54	150	25	4.190
	2.6	7.6	105.32	9.68	170	28	4.190
	2.9	8.4	104.23	10.70	187	31	4.180
	3.2	9.3	103.15	11.85	206	34	4.169
	3.6	10.4	101.71	13.25	228	38	4.148
	4.0	11.5	100.29	14.65	251	42	4.139
	4.5	12.9	98.52	16.43	279	46	4.120
	5.1	14.6	96.42	18.60	313	52	4.102
	5.6	15.9	94.69	20.25	338	56	4.085
	5.9	16.7	93.66	21.27	353	59	4.073
	6.4	18.1	91.95	23.06	380	63	4.059
	6.7	18.9	90.93	24.08	395	65	4.050
	7.1	19.9	89.58	25.35	413	68	4.036
	7.9	22.0	86.92	28.03	450	75	4.006
	8.3	23.1	85.60	29.43	470	78	3.996
	8.7	24.1	84.30	30.70	487	80	3.982
	9.1	25.1	83.00	31.97	504	83	3.970
	9.5	26.1	81.71	33.25	520	86	3.954
	9.9	27.1	80.44	34.52	537	89	3.944
	10.3	28.1	79.17	35.80	553	91	3.930
	10.7	29.1	77.91	37.07	569	94	3.917
	11.1	30.1	76.67	38.34	585	97	3.906
	11.5	31.1	75.43	39.62	600	99	3.891
	11.9	32.0	74.20	40.76	614	101	3.881
	12.3	33.0	72.99	42.04	629	104	3.868
	12.7	33.9	71.78	43.18	642	106	3.855
	13.1	34.9	70.58	44.46	657	108	3.844
	13.5	35.8	69.40	45.61	669	111	3.829
	14.0	36.9	67.93	47.01	684	113	3.814
	14.3	37.6	67.06	47.90	694	115	3.806
	14.7	38.5	65.90	49.04	706	117	3.794
	15.1	39.4	64.75	50.19	718	119	3.782
	15.5	40.3	63.62	51.34	730	121	3.770
	15.9	41.2	62.49	52.48	741	123	3.757
	16.7	43.0	60.27	54.78	764	126	3.734
	17.5	44.7	58.09	56.94	784	130	3.710

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121	18.3	46.4	55.95	59.11	804	133	3.688
	19.1	48.0	53.85	61.15	822	136	3.666
	19.8	49.4	52.04	62.93	836	138	3.644
	20.6	51.0	50.01	64.97	853	141	3.623
	21.4	52.6	48.03	67.01	869	144	3.601
	22.2	54.1	46.08	68.92	883	146	3.579
	23.0	55.6	44.18	70.83	897	148	3.558
	23.8	57.1	42.31	72.74	911	150	3.538
	24.6	58.5	40.49	74.52	922	152	3.517
	25.4	59.9	38.70	76.31	933	154	3.496
	27.0	62.6	35.26	79.75	954	158	3.458
	28.6	65.2	31.97	83.06	971	160	3.419
	29.4	66.4	30.39	84.59	979	162	3.401
	30.2	67.6	28.84	86.11	986	163	3.383
	31.8	70.0	25.88	89.17	1,000	165	3.348
	33.3	72.0	23.24	91.72	1,009	167	3.316
	34.9	74.1	20.59	94.39	1,018	168	3.284
	38.1	77.9	15.76	99.24	1,033	171	3.226
	40.0	79.9	13.20	101.78	1,038	172	3.193
	42.5	82.3	10.18	104.84	1,044	173	3.155
127	2.5	7.7	116.90	9.81	190	30	4.400
	3.2	9.8	114.23	12.48	239	38	4.376
	3.6	11.0	112.72	14.01	267	42	4.365
	4.0	12.1	111.22	15.41	292	46	4.353
	4.5	13.6	109.36	17.32	325	51	4.331
	5.1	15.3	107.15	19.49	363	57	4.315
	5.6	16.8	105.32	21.40	395	62	4.296
	5.9	17.6	104.23	22.42	412	65	4.286
	6.4	19.0	102.43	24.20	441	70	4.268
	6.7	19.9	101.36	25.35	460	72	4.259
	7.1	21.0	99.93	26.75	482	76	4.244
	7.5	22.1	98.52	28.15	504	79	4.231
	7.9	23.2	97.12	29.55	526	83	4.219
	8.0	23.5	96.77	29.94	532	84	4.215
	8.3	24.3	95.73	30.96	548	86	4.207
	8.7	25.4	94.34	32.36	569	90	4.193
	8.9	25.9	93.66	32.99	578	91	4.185
	9.0	26.2	93.31	33.38	584	92	4.182
	9.1	26.5	92.97	33.76	590	93	4.180
	9.2	26.7	92.63	34.01	594	94	4.179

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
127	9.5	27.5	91.61	35.03	608	96	4.166
	9.9	28.6	90.26	36.43	629	99	4.155
	10.0	28.9	89.92	36.82	635	100	4.152
	10.3	29.6	88.91	37.71	647	102	4.142
	10.7	30.7	87.58	39.11	667	105	4.129
	11.1	31.7	86.26	40.38	684	108	4.115
	11.5	32.8	84.95	41.78	704	111	4.104
	11.9	33.8	83.65	43.06	721	113	4.091
	12.0	34.0	83.32	43.31	724	114	4.088
	12.2	34.5	82.68	43.95	732	115	4.081
	12.3	34.8	82.35	44.33	737	116	4.077
	12.5	35.3	81.71	44.97	746	117	4.072
	12.7	35.8	81.07	45.61	754	119	4.065
	13.1	36.8	79.80	46.88	770	121	4.052
	13.5	37.8	78.54	48.15	786	124	4.040
	13.9	38.8	77.29	49.43	802	126	4.028
	14.3	39.7	76.05	50.57	816	129	4.016
	14.7	40.7	74.82	51.85	831	131	4.003
	15.1	41.7	73.59	53.12	847	133	3.993
	15.5	42.6	72.38	54.27	860	135	3.980
	15.9	43.6	71.18	55.54	874	138	3.966
	16.3	44.5	69.99	56.69	887	140	3.955
	16.7	45.4	68.81	57.83	900	142	3.944
	17.1	46.3	67.64	58.98	912	144	3.932
	17.5	47.3	66.48	60.25	926	146	3.920
	17.9	48.2	65.32	61.40	938	148	3.908
	18.3	49.1	64.18	62.55	950	149	3.897
	18.7	49.9	63.05	63.57	960	151	3.886
	19.1	50.8	61.93	64.71	971	153	3.873
	19.5	51.7	60.82	65.86	983	155	3.863
	19.8	52.3	59.99	66.62	990	156	3.854
	20.2	53.2	58.90	67.77	1,001	158	3.843
	20.6	54.1	57.82	68.92	1,012	159	3.831
	21.0	54.9	56.74	69.94	1,021	161	3.820
	21.4	55.7	55.68	70.96	1,030	162	3.809
	21.8	56.6	54.63	72.10	1,040	164	3.797
	22.2	57.4	53.59	73.12	1,049	165	3.787
	23.0	59.0	51.53	75.16	1,066	168	3.766
	23.8	60.6	49.51	77.20	1,082	170	3.743
	24.6	62.1	47.54	79.11	1,097	173	3.723
	25.4	63.6	45.60	81.02	1,111	175	3.703

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
127	27.0	66.6	41.85	84.84	1,138	179	3.662
	28.6	69.4	38.26	88.41	1,160	183	3.622
	29.4	70.8	36.53	90.19	1,171	184	3.603
	30.2	72.1	34.84	91.85	1,181	186	3.585
	31.8	74.7	31.57	95.16	1,198	189	3.548
	33.3	77.0	28.65	98.09	1,212	191	3.515
	34.9	79.3	25.70	101.02	1,225	193	3.482
	36.5	81.5	22.90	103.82	1,236	195	3.450
128	17.1	46.8	69.10	59.62	938	147	3.966
133	2.3	7.4	129.49	9.43	201	30	4.616
	2.6	8.4	128.28	10.70	228	34	4.616
	2.9	9.3	127.08	11.85	251	38	4.602
	3.2	10.2	125.88	12.99	274	41	4.592
	3.6	11.5	124.29	14.65	307	46	4.577
	4.0	12.7	122.72	16.18	337	51	4.563
	4.5	14.3	120.76	18.22	377	56	4.548
	5.1	16.1	118.44	20.51	420	63	4.525
	5.6	17.6	116.52	22.42	456	69	4.509
	5.9	18.5	115.37	23.57	477	72	4.498
	6.3	19.7	113.85	25.10	505	76	4.485
	6.7	20.9	112.34	26.62	532	80	4.470
	7.1	22.0	110.85	28.03	557	84	4.457
	7.5	23.2	109.36	29.55	584	88	4.445
	7.9	24.4	107.88	31.08	610	92	4.430
	8.3	25.5	106.41	32.48	634	95	4.418
	8.7	26.7	104.96	34.01	660	99	4.405
	9.1	27.8	103.51	35.41	683	103	4.391
	9.5	28.9	102.07	36.82	706	106	4.378
	9.9	30.1	100.64	38.34	731	110	4.366
	10.3	31.2	99.23	39.75	753	113	4.352
	10.7	32.3	97.82	41.15	775	116	4.339
	11.1	33.4	96.42	42.55	797	120	4.327
	11.5	34.5	95.03	43.95	818	123	4.314
	11.9	35.5	93.66	45.22	837	126	4.302
	12.3	36.6	92.29	46.62	858	129	4.289
	12.7	37.7	90.93	48.03	879	132	4.277
	13.1	38.7	89.58	49.30	896	135	4.263
	13.5	39.8	88.25	50.70	917	138	4.252
	14.3	41.9	85.60	53.38	954	143	4.227

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
133	15.1	43.9	83.00	55.92	988	149	4.203
	15.9	45.9	80.44	58.47	1,021	154	4.178
	16.7	47.9	77.91	61.02	1,053	158	4.154
	17.5	49.8	75.43	63.44	1,082	163	4.129
	18.3	51.8	72.99	65.99	1,113	167	4.106
	19.1	53.7	70.58	68.41	1,141	171	4.083
	19.8	55.3	68.51	70.45	1,163	175	4.063
	20.6	57.1	66.19	72.74	1,187	179	4.039
	21.4	58.9	63.90	75.03	1,211	182	4.017
	22.2	60.7	61.65	77.32	1,234	185	3.994
	23.0	62.4	59.45	79.49	1,255	189	3.973
	23.8	64.1	57.28	81.66	1,275	192	3.951
	24.6	65.8	55.15	83.82	1,295	195	3.930
	25.4	67.4	53.07	85.86	1,312	197	3.909
	27.0	70.6	49.02	89.94	1,345	202	3.867
	28.6	73.6	45.13	93.76	1,373	207	3.826
	29.4	75.1	43.24	95.67	1,387	209	3.807
	30.2	76.6	41.40	97.58	1,400	210	3.787
	31.8	79.4	37.83	101.15	1,423	214	3.750
	33.3	81.9	34.63	104.33	1,441	217	3.716
139	34.9	84.4	31.37	107.52	1,457	219	3.681
	36.5	86.9	28.27	110.70	1,473	221	3.647
	38.1	89.2	25.34	113.63	1,485	223	3.615
	40.0	91.7	22.06	116.82	1,497	225	3.579
	2.9	9.7	139.35	12.36	286	41	4.810
	3.2	10.7	138.09	13.63	314	45	4.799
	3.6	12.0	136.43	15.29	351	51	4.791
	4.0	13.3	134.78	16.94	386	56	4.773
	4.5	14.9	132.73	18.98	430	62	4.759
	5.1	16.8	130.29	21.40	480	69	4.736
	5.6	18.4	128.28	23.44	522	75	4.719
	5.9	19.4	127.08	24.71	548	79	4.709
	6.2	20.3	125.88	25.86	571	82	4.698
	6.4	20.9	125.09	26.62	586	85	4.691
	6.5	21.2	124.69	27.01	594	86	4.689
	7.0	22.8	122.72	29.04	634	91	4.672
	7.1	23.1	122.33	29.43	642	92	4.670
	7.5	24.3	120.76	30.96	671	97	4.655
	7.7	24.9	119.98	31.72	686	99	4.650
	7.9	25.5	119.21	32.48	700	101	4.642

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139	8.0	25.8	118.82	32.87	708	102	4.641
	8.3	26.8	117.67	34.14	732	105	4.630
	8.7	28.0	116.13	35.67	760	109	4.615
	9.0	28.9	114.99	36.82	782	112	4.608
	9.1	29.2	114.61	37.20	788	113	4.602
	9.2	29.5	114.23	37.58	795	114	4.599
	9.5	30.3	113.10	38.60	814	117	4.592
	9.9	31.5	111.59	40.13	841	121	4.577
	10.0	31.8	111.22	40.51	848	122	4.575
	10.3	32.7	110.10	41.66	868	125	4.564
	10.5	33.3	109.36	42.42	881	127	4.557
	10.7	33.9	108.62	43.18	895	129	4.552
	11.1	35.0	107.15	44.59	919	132	4.539
	11.5	36.2	105.68	46.11	945	136	4.527
	11.9	37.3	104.23	47.52	968	139	4.513
	12.0	37.6	103.87	47.90	974	140	4.509
	12.2	38.2	103.15	48.66	987	142	4.503
	12.3	38.4	102.79	48.92	991	143	4.500
	12.5	39.0	102.07	49.68	1,003	144	4.493
	12.7	39.6	101.36	50.45	1,016	146	4.487
	13.1	40.7	99.93	51.85	1,038	149	4.474
	13.5	41.8	98.52	53.25	1,061	153	4.463
	14.3	44.0	95.73	56.05	1,104	159	4.438
	15.1	46.1	92.97	58.73	1,144	165	4.413
	15.9	48.3	90.26	61.53	1,185	170	4.388
	16.7	50.4	87.58	64.20	1,223	176	4.364
	17.4	52.2	85.28	66.50	1,254	180	4.342
	17.5	52.4	84.95	66.75	1,257	181	4.339
	18.3	54.5	82.35	69.43	1,293	186	4.315
	19.1	56.5	79.80	71.97	1,326	191	4.292
	19.8	58.2	77.60	74.14	1,353	195	4.271
	20.6	60.2	75.12	76.69	1,385	199	4.249
	21.4	62.1	72.68	79.11	1,413	203	4.226
	22.2	63.9	70.29	81.40	1,438	207	4.203
	23.0	65.8	67.93	83.82	1,465	211	4.180
	23.8	67.6	65.61	86.11	1,489	214	4.158
	24.6	69.4	63.33	88.41	1,513	218	4.136
	27.0	74.6	56.74	95.03	1,577	227	4.073
	28.6	77.9	52.55	99.24	1,613	232	4.031
	30.2	81.0	48.52	103.18	1,644	237	3.991
	31.8	84.1	44.65	107.13	1,674	241	3.952

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139	33.3	86.8	41.17	110.57	1,697	244	3.917
	34.9	89.6	37.61	114.14	1,720	247	3.881
	36.5	92.3	34.21	117.58	1,740	250	3.846
141	2.3	7.9	146.12	10.06	242	34	4.904
	2.6	8.9	144.84	11.34	272	38	4.897
	2.9	9.9	143.56	12.61	301	43	4.885
	3.2	10.9	142.29	13.89	330	47	4.874
	3.6	12.2	140.61	15.54	367	52	4.859
	4.0	13.5	138.93	17.20	404	57	4.846
	4.5	15.1	136.85	19.24	449	64	4.830
	5.1	17.1	134.37	21.78	504	71	4.810
	5.6	18.7	132.32	23.82	547	78	4.792
	5.9	19.7	131.10	25.10	574	81	4.782
	6.4	21.2	129.08	27.01	613	87	4.763
	6.7	22.2	127.88	28.28	639	91	4.753
	7.1	23.4	126.28	29.81	670	95	4.740
	7.5	24.7	124.69	31.46	703	100	4.727
	7.9	25.9	123.11	32.99	733	104	4.713
	8.3	27.2	121.54	34.65	766	108	4.701
	8.7	28.4	119.98	36.18	795	113	4.687
	9.1	29.6	118.44	37.71	824	117	4.674
	9.5	30.8	116.90	39.24	853	121	4.662
	9.9	32.0	115.37	40.76	881	125	4.649
	10.3	33.2	113.85	42.29	909	129	4.636
	10.7	34.4	112.34	43.82	936	133	4.621
	11.1	35.6	110.85	45.35	964	137	4.610
	11.5	36.7	109.36	46.75	988	140	4.597
	11.9	37.9	107.88	48.28	1,014	144	4.582
	12.3	39.0	106.41	49.68	1,038	147	4.570
	12.7	40.2	104.96	51.21	1,064	151	4.558
	13.1	41.3	103.51	52.61	1,087	154	4.545
	13.5	42.4	102.07	54.01	1,110	158	4.533
	14.3	44.7	99.23	56.94	1,157	164	4.507
	15.1	46.9	96.42	59.75	1,201	170	4.483
	15.9	49.1	93.66	62.55	1,243	176	4.457
	16.7	51.2	90.93	65.22	1,282	182	4.433
	17.5	53.3	88.25	67.90	1,321	187	4.410
	18.3	55.4	85.60	70.57	1,358	192	4.386
	19.1	57.4	83.00	73.12	1,392	197	4.363
	19.8	59.2	80.75	75.41	1,422	202	4.342

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141	20.6	61.2	78.23	77.96	1,454	206	4.318
	21.4	63.1	75.74	80.38	1,483	210	4.295
	22.2	65.0	73.29	82.80	1,512	215	4.273
	23.0	66.9	70.88	85.22	1,540	218	4.250
	23.8	68.8	68.51	87.64	1,567	222	4.228
	24.6	70.6	66.19	89.94	1,591	226	4.205
	25.4	72.4	63.90	92.23	1,615	229	4.184
	27.0	75.9	59.45	96.69	1,659	235	4.142
	28.6	79.3	55.15	101.02	1,699	241	4.100
	29.4	80.9	53.07	103.06	1,716	243	4.080
	30.2	82.5	51.02	105.10	1,733	246	4.060
	31.8	85.6	47.05	109.04	1,763	250	4.020
	33.3	88.4	43.47	112.61	1,789	254	3.985
	34.9	91.3	39.82	116.31	1,814	257	3.949
	36.5	94.1	36.32	119.87	1,836	260	3.913
	38.1	96.7	32.98	123.18	1,854	263	3.879
	40.0	99.6	29.22	126.88	1,872	266	3.841
144	10.3	34.0	119.60	43.31	973	135	4.739
	10.7	35.2	118.05	44.84	1,002	139	4.727
146	2.3	8.2	157.03	10.45	270	37	5.083
	2.6	9.2	155.70	11.72	301	41	5.067
	2.9	10.2	154.38	12.99	333	46	5.063
	3.2	11.3	153.06	14.39	367	50	5.050
	3.6	12.6	151.31	16.05	407	56	5.035
	4.0	14.0	149.57	17.83	450	62	5.023
	4.5	15.7	147.41	20.00	501	69	5.004
	5.1	17.7	144.84	22.55	560	77	4.983
	5.6	19.4	142.71	24.71	610	84	4.968
	5.9	20.4	141.45	25.99	639	87	4.958
	6.4	22.0	139.35	28.03	684	94	4.939
	6.7	23.0	138.09	29.30	712	98	4.929
	7.1	24.3	136.43	30.96	749	103	4.918
	7.5	25.6	134.78	32.61	784	108	4.903
	7.9	26.9	133.14	34.27	820	112	4.891
	8.3	28.2	131.51	35.92	854	117	4.875
	8.7	29.5	129.89	37.58	889	122	4.863
	9.1	30.7	128.28	39.11	920	126	4.850
	9.5	32.0	126.68	40.76	954	131	4.837
	9.9	33.2	125.09	42.29	984	135	4.823

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146	10.3	34.5	123.51	43.95	1,017	139	4.810
	10.7	35.7	121.93	45.48	1,047	143	4.798
	11.1	36.9	120.37	47.01	1,077	148	4.786
	11.5	38.1	118.82	48.54	1,106	152	4.773
	11.9	39.4	117.28	50.19	1,137	156	4.759
	12.3	40.6	115.75	51.72	1,165	159	4.746
	12.7	41.8	114.23	53.25	1,193	163	4.733
	13.1	42.9	112.72	54.65	1,218	167	4.720
	13.5	44.1	111.22	56.18	1,246	171	4.709
	14.3	46.4	108.25	59.11	1,297	178	4.684
	15.1	48.7	105.32	62.04	1,346	185	4.657
	15.9	51.0	102.43	64.97	1,395	191	4.633
	16.7	53.3	99.58	67.90	1,443	197	4.609
	17.5	55.5	96.77	70.70	1,486	203	4.584
	18.3	57.6	94.00	73.38	1,527	209	4.561
	19.1	59.8	91.27	76.18	1,568	215	4.536
	19.8	61.6	88.91	78.47	1,601	219	4.516
	20.6	63.7	86.26	81.15	1,638	224	4.492
	21.4	65.8	83.65	83.82	1,675	229	4.470
	22.2	67.8	81.07	86.37	1,708	234	4.446
	23.0	69.8	78.54	88.92	1,740	238	4.423
	23.8	71.7	76.05	91.34	1,770	242	4.402
	24.6	73.7	73.59	93.89	1,801	246	4.379
	25.4	75.5	71.18	96.18	1,826	250	4.357
	27.0	79.2	66.48	100.89	1,878	257	4.314
	28.6	82.8	61.93	105.48	1,925	264	4.272
	29.4	84.5	59.72	107.64	1,946	267	4.251
	30.2	86.2	57.55	109.81	1,966	269	4.231
	31.8	89.6	53.33	114.14	2,005	275	4.191
	33.3	92.6	49.51	117.96	2,036	279	4.154
	34.9	95.6	45.60	121.78	2,064	283	4.116
	36.5	98.6	41.85	125.61	2,092	286	4.081
	38.1	101.4	38.26	129.17	2,114	290	4.045
	40.0	104.6	34.21	133.25	2,138	293	4.005
149	10.5	35.9	128.68	45.73	1,103	148	4.911
152	2.0	7.4	172.03	9.43	265	35	5.301
	2.3	8.5	170.64	10.83	303	40	5.289
	2.6	9.6	169.26	12.23	341	45	5.280
	2.9	10.7	167.87	13.63	379	50	5.273



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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
152	3.2	11.7	166.50	14.90	413	55	5.264
	3.6	13.2	164.67	16.82	463	61	5.246
	4.0	14.6	162.86	18.60	510	67	5.236
	4.5	16.4	160.61	20.89	569	75	5.219
	5.1	18.5	157.92	23.57	637	84	5.198
	5.6	20.2	155.70	25.73	690	91	5.178
	5.9	21.3	154.38	27.13	725	95	5.169
	6.4	23.0	152.18	29.30	778	102	5.152
	6.7	24.0	150.87	30.57	808	106	5.141
	7.1	25.4	149.14	32.36	851	112	5.128
	7.5	26.7	147.41	34.01	890	117	5.115
	7.9	28.1	145.69	35.80	932	123	5.102
	8.3	29.4	143.99	37.45	970	128	5.089
	8.7	30.7	142.29	39.11	1,008	133	5.076
	9.0	31.7	141.03	40.38	1,036	137	5.065
	9.5	33.4	138.93	42.55	1,085	143	5.049
	9.9	34.7	137.26	44.20	1,121	147	5.036
	10.3	36.0	135.61	45.86	1,157	152	5.022
	10.7	37.3	133.96	47.52	1,193	157	5.010
	11.1	38.6	132.32	49.17	1,228	161	4.997
	11.5	39.8	130.70	50.70	1,259	166	4.983
	11.9	41.1	129.08	52.36	1,294	170	4.971
	12.3	42.4	127.48	54.01	1,328	175	4.958
	12.7	43.6	125.88	55.54	1,358	179	4.944
	13.1	44.9	124.29	57.20	1,392	183	4.933
	13.5	46.1	122.72	58.73	1,422	187	4.920
	14.3	48.6	119.60	61.91	1,483	195	4.894
	15.1	51.0	116.52	64.97	1,541	203	4.870
	15.9	53.4	113.47	68.03	1,597	210	4.845
	16.7	55.7	110.47	70.96	1,648	217	4.819
	17.5	58.0	107.51	73.89	1,699	224	4.795
	18.3	60.3	104.59	76.82	1,749	230	4.771
	19.1	62.6	101.71	79.75	1,797	236	4.746
	19.8	64.6	99.23	82.29	1,838	242	4.726
	20.6	66.8	96.42	85.10	1,882	247	4.702
	21.4	68.9	93.66	87.77	1,922	253	4.679
	22.2	71.1	90.93	90.57	1,963	258	4.655
	23.0	73.2	88.25	93.25	2,001	263	4.632
	23.8	75.2	85.60	95.80	2,036	268	4.610
	24.6	77.3	83.00	98.47	2,072	273	4.587
	25.4	79.3	80.44	101.02	2,105	277	4.564

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
152	27.0	83.2	75.43	105.99	2,167	285	4.521
	28.6	87.0	70.58	110.83	2,223	293	4.478
	29.4	88.9	68.22	113.25	2,250	296	4.457
	30.2	90.7	65.90	115.54	2,274	299	4.436
	31.8	94.3	61.38	120.13	2,321	305	4.395
	33.3	97.5	57.28	124.20	2,360	310	4.359
	34.9	100.8	53.07	128.41	2,397	315	4.320
	36.5	104.0	49.02	132.48	2,430	320	4.282
	38.1	107.0	45.13	136.31	2,458	323	4.246
	40.0	110.5	40.72	140.76	2,489	327	4.205
159	2.0	7.7	188.69	9.81	302	38	5.548
	2.3	8.9	187.23	11.34	348	44	5.539
	2.6	10.0	185.78	12.74	390	49	5.532
	2.9	11.2	184.33	14.27	435	55	5.521
	3.2	12.3	182.89	15.67	476	60	5.511
	3.6	13.8	180.98	17.58	531	67	5.495
	4.0	15.3	179.08	19.49	586	74	5.483
	4.5	17.1	176.71	21.78	650	82	5.462
	5.1	19.4	173.90	24.71	732	92	5.442
	5.6	21.2	171.57	27.01	796	100	5.428
	5.9	22.3	170.18	28.41	834	105	5.418
	6.4	24.1	167.87	30.70	895	113	5.399
	6.7	25.2	166.50	32.10	933	117	5.391
	7.1	26.6	164.67	33.89	980	123	5.377
	7.5	28.0	162.86	35.67	1,026	129	5.363
	7.9	29.4	161.06	37.45	1,072	135	5.350
	8.3	30.8	159.26	39.24	1,117	141	5.335
	8.7	32.2	157.48	41.02	1,162	146	5.322
	9.1	33.6	155.70	42.80	1,207	152	5.310
	9.5	35.0	153.94	44.59	1,251	157	5.296
	9.9	36.4	152.18	46.37	1,294	163	5.282
	10.3	37.8	150.44	48.15	1,337	168	5.269
	10.7	39.1	148.71	49.81	1,376	173	5.255
	11.1	40.5	146.98	51.59	1,419	178	5.244
	11.5	41.8	145.27	53.25	1,457	183	5.230
	11.9	43.2	143.56	55.03	1,498	188	5.217
	12.3	44.5	141.87	56.69	1,536	193	5.205
	12.7	45.8	140.19	58.34	1,573	198	5.192
	13.1	47.1	138.51	60.00	1,609	203	5.178
	13.5	48.4	136.85	61.66	1,646	207	5.166

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
159	14.3	51.0	133.55	64.97	1,717	216	5.140
	15.1	53.6	130.29	68.28	1,787	225	5.115
	15.9	56.1	127.08	71.46	1,852	233	5.090
	16.7	58.6	123.90	74.65	1,916	241	5.066
	17.5	61.1	120.76	77.83	1,978	249	5.041
	18.3	63.5	117.67	80.89	2,036	256	5.016
	19.1	65.9	114.61	83.95	2,092	263	4.991
	19.8	68.0	111.97	86.62	2,140	269	4.970
	20.6	70.3	108.99	89.55	2,192	276	4.947
	21.4	72.6	106.05	92.48	2,242	282	4.923
	22.2	74.9	103.15	95.41	2,291	288	4.900
	23.0	77.1	100.29	98.22	2,336	294	4.876
	23.8	79.4	97.47	101.15	2,383	300	4.853
	24.6	81.5	94.69	103.82	2,423	305	4.830
	25.4	83.7	91.95	106.62	2,465	310	4.808
	27.0	87.9	86.59	111.97	2,541	320	4.763
	28.6	92.0	81.39	117.20	2,611	328	4.719
	29.4	94.0	78.85	119.75	2,644	332	4.698
	30.2	95.9	76.36	122.17	2,673	336	4.677
	31.8	99.8	71.48	127.13	2,732	343	4.635
	33.3	103.2	67.06	131.46	2,779	350	4.597
	34.9	106.8	62.49	136.05	2,826	356	4.557
	36.5	110.3	58.09	140.51	2,870	361	4.519
	38.1	113.6	53.85	144.71	2,907	366	4.481
	40.0	117.4	49.02	149.55	2,946	371	4.438
161	6.4	24.4	172.50	31.08	930	116	5.470
	7.1	26.9	169.26	34.27	1,017	127	5.447
	8.6	32.3	162.41	41.15	1,198	149	5.395
	9.5	35.5	158.37	45.22	1,302	162	5.365
	10.6	39.3	153.50	50.06	1,422	177	5.329
	11.4	42.1	150.00	53.63	1,509	187	5.304
	12.1	44.4	146.98	56.56	1,578	196	5.282
	12.6	46.1	144.84	58.73	1,628	202	5.264
	13.5	49.1	141.03	62.55	1,715	213	5.236
	14.3	51.7	137.68	65.86	1,789	222	5.211
	15.1	54.3	134.37	69.17	1,860	231	5.185
	15.9	56.9	131.10	72.48	1,930	240	5.160
	16.3	58.2	129.49	74.14	1,965	244	5.148
	17.5	61.9	124.69	78.85	2,060	256	5.111
	18.3	64.4	121.54	82.04	2,123	264	5.087

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161	19.1	66.8	118.44	85.10	2,181	271	5.062
	20.6	71.3	112.72	90.83	2,286	284	5.016
	23.0	78.3	103.87	99.75	2,441	303	4.946
	25.4	84.9	95.38	108.15	2,573	320	4.877
	29.4	95.4	82.03	121.53	2,762	343	4.767
165	2.0	8.0	203.58	10.19	338	41	5.759
	2.3	9.2	202.07	11.72	388	47	5.753
	2.6	10.4	200.56	13.25	437	53	5.742
	2.9	11.6	199.06	14.78	486	59	5.734
	3.2	12.8	197.56	16.31	534	65	5.721
	3.6	14.3	195.57	18.22	594	72	5.709
	4.0	15.9	193.59	20.25	657	80	5.695
	4.5	17.8	191.13	22.68	731	89	5.677
	5.1	20.1	188.21	25.61	819	99	5.655
	5.5	21.6	186.26	27.52	876	106	5.641
	5.9	23.1	184.33	29.43	932	113	5.627
	6.4	25.0	181.94	31.85	1,003	122	5.611
	6.7	26.2	180.50	33.38	1,047	127	5.600
	7.1	27.6	178.60	35.16	1,098	133	5.588
	7.5	29.1	176.71	37.07	1,152	140	5.574
	7.9	30.6	174.83	38.98	1,206	146	5.562
	8.3	32.1	172.96	40.89	1,259	152	5.548
	8.7	33.5	171.10	42.68	1,307	159	5.533
	9.1	35.0	169.26	44.59	1,359	165	5.520
	9.5	36.4	167.42	46.37	1,407	171	5.508
	9.9	37.9	165.59	48.28	1,458	177	5.495
	10.3	39.3	163.77	50.06	1,504	182	5.481
	10.7	40.7	161.96	51.85	1,551	188	5.469
	11.1	42.1	160.16	53.63	1,596	194	5.455
	11.5	43.5	158.37	55.41	1,641	199	5.442
	11.9	44.9	156.59	57.20	1,686	205	5.429
	12.3	46.3	154.82	58.98	1,730	210	5.415
	12.7	47.7	153.06	60.76	1,774	215	5.403
	13.1	49.1	151.31	62.55	1,817	220	5.389
	13.5	50.4	149.57	64.20	1,857	225	5.378
	14.3	53.1	146.12	67.64	1,937	235	5.351
	15.1	55.8	142.71	71.08	2,017	245	5.326
	15.9	58.5	139.35	74.52	2,094	254	5.300
	16.7	61.1	136.02	77.83	2,167	263	5.276
	17.5	63.7	132.73	81.15	2,238	271	5.251

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165	18.3	66.2	129.49	84.33	2,304	279	5.226
	19.1	68.7	126.28	87.52	2,369	287	5.202
	19.8	70.9	123.51	90.32	2,425	294	5.181
	20.6	73.4	120.37	93.50	2,487	301	5.157
	21.4	75.8	117.28	96.56	2,544	308	5.132
	22.2	78.2	114.23	99.62	2,601	315	5.109
	23.0	80.5	111.22	102.55	2,653	322	5.086
	23.8	82.9	108.25	105.61	2,707	328	5.062
	24.6	85.2	105.32	108.54	2,757	334	5.039
	25.4	87.4	102.43	111.34	2,802	340	5.016
	27.0	91.9	96.77	117.07	2,894	351	4.971
	28.6	96.2	91.27	122.55	2,975	361	4.927
	29.4	98.3	88.58	125.22	3,013	365	4.905
	30.2	100.4	85.93	127.90	3,051	370	4.884
	31.8	104.5	80.75	133.12	3,121	378	4.842
	33.3	108.2	76.05	137.83	3,179	385	4.802
	34.9	112.0	71.18	142.68	3,236	392	4.762
	36.5	115.7	66.48	147.39	3,288	398	4.723
	38.1	119.2	61.93	151.85	3,332	404	4.684
	40.0	123.3	56.74	157.07	3,382	410	4.640
168	2.6	10.6	208.16	13.50	462	55	5.849
	2.9	11.8	206.63	15.03	512	61	5.836
	3.2	13.0	205.10	16.56	562	67	5.825
	3.5	14.2	203.58	18.09	612	73	5.816
	3.6	14.6	203.08	18.60	629	75	5.815
	4.0	16.2	201.06	20.64	694	83	5.798
	4.5	18.1	198.56	23.06	771	92	5.782
	4.8	19.3	197.06	24.59	819	98	5.771
	5.0	20.1	196.07	25.61	851	101	5.764
	5.1	20.5	195.57	26.11	867	103	5.762
	5.6	22.4	193.10	28.54	942	112	5.745
	5.9	23.6	191.62	30.06	989	118	5.735
	6.0	24.0	191.13	30.57	1,004	119	5.730
	6.3	25.1	189.67	31.97	1,046	125	5.719
	6.4	25.5	189.18	32.48	1,062	126	5.718
	6.5	25.9	188.69	32.99	1,077	128	5.713
	6.7	26.7	187.72	34.01	1,108	132	5.707
	7.0	27.8	186.26	35.41	1,149	137	5.696
	7.1	28.2	185.78	35.92	1,165	139	5.694
	7.3	28.9	184.82	36.82	1,191	142	5.687

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168	7.5	29.7	183.85	37.83	1,221	145	5.681
	7.9	31.2	181.94	39.75	1,277	152	5.667
	8.0	31.6	181.46	40.25	1,291	154	5.663
	8.3	32.7	180.03	41.66	1,332	158	5.654
	8.5	33.4	179.08	42.55	1,357	162	5.647
	8.7	34.2	178.13	43.57	1,386	165	5.640
	8.9	34.9	177.19	44.46	1,411	168	5.633
	9.0	35.3	176.71	44.97	1,426	170	5.631
	9.1	35.7	176.24	45.48	1,440	171	5.626
	9.5	37.1	174.37	47.26	1,489	177	5.613
	9.9	38.6	172.50	49.17	1,542	184	5.600
	10.0	39.0	172.03	49.68	1,556	185	5.596
	10.3	40.1	170.64	51.08	1,595	190	5.588
	10.5	40.8	169.72	51.97	1,619	193	5.581
	10.6	41.1	169.26	52.36	1,629	194	5.577
	10.7	41.5	168.79	52.87	1,643	196	5.574
	11.1	43.0	166.96	54.78	1,694	201	5.560
	11.5	44.4	165.13	56.56	1,741	207	5.548
	11.9	45.8	163.31	58.34	1,787	213	5.534
	12.1	46.5	162.41	59.24	1,811	216	5.529
	12.3	47.2	161.51	60.13	1,834	218	5.522
	12.7	48.6	159.71	61.91	1,879	224	5.509
	13.1	50.0	157.92	63.69	1,924	229	5.496
	13.5	51.4	156.14	65.48	1,969	235	5.483
	13.9	52.8	154.38	67.26	2,013	240	5.470
	14.3	54.2	152.62	69.04	2,056	245	5.457
	14.7	55.6	150.87	70.83	2,100	250	5.444
	15.1	56.9	149.14	72.48	2,139	255	5.432
	15.5	58.3	147.41	74.27	2,181	260	5.419
	15.9	59.6	145.69	75.92	2,219	264	5.406
	16.3	61.0	143.99	77.71	2,261	269	5.393
	17.5	65.0	138.93	82.80	2,376	283	5.356
	18.3	67.6	135.61	86.11	2,448	291	5.331
	19.1	70.1	132.32	89.30	2,516	300	5.308
	19.8	72.4	129.49	92.23	2,577	307	5.285
	20.6	74.9	126.28	95.41	2,642	314	5.262
	21.4	77.4	123.11	98.60	2,705	322	5.237
	22.2	79.8	119.98	101.66	2,764	329	5.214
	23.0	82.2	116.90	104.71	2,821	336	5.190
	23.8	84.6	113.85	107.77	2,877	343	5.166
	24.6	87.0	110.85	110.83	2,933	349	5.144

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168	25.4	89.3	107.88	113.76	2,983	355	5.120
	27.0	93.9	102.07	119.62	3,082	367	5.075
	28.6	98.3	96.42	125.22	3,170	377	5.031
	29.4	100.5	93.66	128.03	3,213	382	5.009
	30.2	102.6	90.93	130.70	3,251	387	4.987
	31.8	106.8	85.60	136.05	3,327	396	4.945
	33.3	110.6	80.75	140.89	3,391	404	4.905
	34.9	114.6	75.74	145.99	3,455	411	4.864
	36.5	118.4	70.88	150.83	3,511	418	4.824
173	2.3	9.7	222.73	12.36	450	52	6.033
	2.6	10.9	221.14	13.89	504	58	6.023
	2.9	12.2	219.56	15.54	562	65	6.013
	3.2	13.4	217.99	17.07	615	71	6.002
	3.6	15.0	215.90	19.11	686	79	5.991
	4.0	16.7	213.82	21.27	760	88	5.977
	4.5	18.7	211.24	23.82	846	98	5.959
	5.1	21.1	208.16	26.88	948	110	5.938
	5.6	23.1	205.61	29.43	1,032	119	5.921
	5.9	24.3	204.09	30.96	1,082	125	5.911
	6.4	26.3	201.56	33.50	1,164	135	5.894
	6.7	27.5	200.06	35.03	1,213	140	5.884
	7.1	29.0	198.06	36.94	1,273	147	5.870
	7.5	30.6	196.07	38.98	1,337	155	5.856
	7.9	32.2	194.09	41.02	1,401	162	5.844
	8.3	33.7	192.12	42.93	1,459	169	5.829
	8.7	35.3	190.16	44.97	1,522	176	5.817
	9.1	36.8	188.21	46.88	1,579	182	5.803
	9.5	38.3	186.26	48.79	1,636	189	5.790
	9.9	39.8	184.33	50.70	1,692	196	5.776
	10.3	41.3	182.41	52.61	1,748	202	5.764
	10.7	42.8	180.50	54.52	1,803	209	5.750
	11.1	44.3	178.60	56.43	1,858	215	5.738
	11.5	45.8	176.71	58.34	1,912	221	5.724
	11.9	47.3	174.83	60.25	1,965	227	5.710
	12.3	48.7	172.96	62.04	2,014	233	5.697
	12.7	50.2	171.10	63.95	2,067	239	5.685
	13.1	51.7	169.26	65.86	2,119	245	5.672
	13.5	53.1	167.42	67.64	2,166	250	5.658
	14.3	56.0	163.77	71.34	2,264	262	5.633
	15.1	58.8	160.16	74.90	2,356	272	5.608

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
173	15.9	61.6	156.59	78.47	2,446	283	5.583
	16.7	64.4	153.06	82.04	2,534	293	5.557
	17.5	67.1	149.57	85.48	2,616	303	5.532
	18.3	69.8	146.12	88.92	2,697	312	5.507
	19.1	72.5	142.71	92.36	2,777	321	5.483
	19.8	74.8	139.77	95.29	2,842	329	5.461
	20.6	77.4	136.43	98.60	2,915	337	5.437
	21.4	80.0	133.14	101.91	2,986	345	5.412
	22.2	82.6	129.89	105.22	3,056	353	5.389
	23.0	85.1	126.68	108.41	3,121	361	5.365
	23.8	87.6	123.51	111.59	3,184	368	5.341
	24.6	90.0	120.37	114.65	3,243	375	5.318
	25.4	92.5	117.28	117.83	3,304	382	5.295
	27.0	97.2	111.22	123.82	3,412	395	5.249
	28.6	101.9	105.32	129.81	3,516	406	5.204
	29.4	104.1	102.43	132.61	3,561	412	5.181
	30.2	106.4	99.58	135.54	3,609	417	5.160
	31.8	110.7	94.00	141.02	3,693	427	5.117
	33.3	114.7	88.91	146.11	3,767	436	5.077
	34.9	118.9	83.65	151.46	3,841	444	5.035
178	36.5	122.9	78.54	156.56	3,907	452	4.995
	38.1	126.8	73.59	161.53	3,968	458	4.956
	40.0	131.2	67.93	167.13	4,030	466	4.910
	43.0	137.9	59.45	175.67	4,117	476	4.841
	2.3	10.0	236.15	12.74	492	55	6.214
	2.9	12.5	232.89	15.92	610	69	6.190
	3.2	13.8	231.27	17.58	672	75	6.182
	3.6	15.5	229.12	19.75	751	84	6.166
	4.5	19.3	224.32	24.59	926	104	6.136
	5.1	21.7	221.14	27.64	1,034	116	6.116
	5.6	23.8	218.52	30.32	1,128	127	6.099
	5.9	25.0	216.95	31.85	1,181	133	6.089
	6.4	27.1	214.34	34.52	1,272	143	6.070
	6.7	28.3	212.79	36.05	1,324	149	6.060
	6.9	29.1	211.76	37.07	1,359	153	6.054
	7.1	29.9	210.73	38.09	1,393	157	6.047
	7.5	31.5	208.67	40.13	1,461	164	6.033
	7.9	33.1	206.63	42.17	1,528	172	6.019
	8.1	33.9	205.61	43.18	1,562	176	6.014
	8.3	34.7	204.60	44.20	1,595	179	6.007

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178	8.7	36.3	202.57	46.24	1,661	187	5.993
	9.0	37.5	201.06	47.77	1,710	192	5.983
	9.1	37.9	200.56	48.28	1,727	194	5.980
	9.2	38.3	200.06	48.79	1,743	196	5.977
	9.5	39.5	198.56	50.32	1,792	201	5.967
	9.9	41.0	196.56	52.23	1,851	208	5.953
	10.3	42.6	194.58	54.27	1,915	215	5.940
	10.4	43.0	194.09	54.78	1,931	217	5.937
	10.7	44.1	192.61	56.18	1,974	222	5.927
	11.1	45.7	190.64	58.22	2,036	229	5.913
	11.5	47.2	188.69	60.13	2,094	235	5.901
	11.9	48.7	186.75	62.04	2,151	242	5.888
	12.0	49.1	186.26	62.55	2,166	243	5.884
	12.3	50.3	184.82	64.08	2,211	248	5.874
	12.7	51.8	182.89	65.99	2,267	255	5.861
	13.1	53.3	180.98	67.90	2,322	261	5.847
	13.5	54.8	179.08	69.81	2,377	267	5.835
	13.7	55.5	178.13	70.70	2,402	270	5.828
	14.3	57.7	175.30	73.50	2,481	279	5.809
	15.1	60.7	171.57	77.32	2,587	290	5.784
	15.9	63.6	167.87	81.02	2,687	302	5.758
	16.3	65.0	166.04	82.80	2,734	307	5.746
	16.7	66.4	164.22	84.59	2,781	313	5.733
	17.5	69.3	160.61	88.28	2,876	323	5.707
	18.3	72.1	157.03	91.85	2,967	333	5.683
	19.1	74.8	153.50	95.29	3,051	343	5.658
	19.8	77.3	150.44	98.47	3,129	351	5.637
	20.6	80.0	146.98	101.91	3,210	361	5.612
	21.4	82.6	143.56	105.22	3,286	369	5.588
	22.2	85.3	140.19	108.66	3,364	378	5.564
	23.0	87.9	136.85	111.97	3,437	386	5.540
	23.8	90.5	133.55	115.29	3,508	394	5.516
	24.6	93.1	130.29	118.60	3,578	402	5.492
	25.4	95.6	127.08	121.78	3,643	409	5.469
	27.0	100.5	120.76	128.03	3,766	423	5.423
	28.6	105.4	114.61	134.27	3,883	436	5.377
	29.4	107.7	111.59	137.20	3,935	442	5.355
	30.2	110.1	108.62	140.25	3,990	448	5.333
	31.8	114.7	102.79	146.11	4,088	459	5.289
	33.3	118.8	97.47	151.34	4,171	469	5.249
	34.9	123.2	91.95	156.94	4,256	478	5.207

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178	36.5	127.4	86.59	162.29	4,332	487	5.166
	45.0	147.6	60.82	188.03	4,634	521	4.964
	50.0	157.8	47.78	201.02	4,745	533	4.858
184	2.6	11.6	251.09	14.78	608	66	6.413
	2.9	13.0	249.40	16.56	679	74	6.403
	3.2	14.3	247.73	18.22	745	81	6.394
	3.6	16.0	245.50	20.38	829	90	6.377
	4.0	17.8	243.28	22.68	919	100	6.365
	4.5	19.9	240.53	25.35	1,022	111	6.349
	5.1	22.5	237.24	28.66	1,148	125	6.328
	5.6	24.6	234.52	31.34	1,248	136	6.310
	5.9	25.9	232.89	32.99	1,309	142	6.299
	6.4	28.0	230.20	35.67	1,408	153	6.282
	6.7	29.3	228.58	37.32	1,469	160	6.273
	7.1	31.0	226.45	39.49	1,547	168	6.258
	7.5	32.6	224.32	41.53	1,620	176	6.245
	7.9	34.3	222.20	43.69	1,697	185	6.232
	8.3	36.0	220.09	45.86	1,774	193	6.219
	8.7	37.6	217.99	47.90	1,844	201	6.204
	9.1	39.3	215.90	50.06	1,919	208	6.191
	9.5	40.9	213.82	52.10	1,989	216	6.178
	9.9	42.5	211.76	54.14	2,058	224	6.165
	10.3	44.1	209.70	56.18	2,126	231	6.151
	10.7	45.7	207.65	58.22	2,194	239	6.138
	11.1	47.3	205.61	60.25	2,261	246	6.125
	11.5	48.9	203.58	62.29	2,327	253	6.112
	11.9	50.5	201.56	64.33	2,393	260	6.099
	12.3	52.1	199.56	66.37	2,458	267	6.085
	12.7	53.7	197.56	68.41	2,523	274	6.072
	13.1	55.2	195.57	70.32	2,582	281	6.059
	13.5	56.8	193.59	72.36	2,646	287	6.047
	14.3	59.8	189.67	76.18	2,762	300	6.021
	15.1	62.9	185.78	80.13	2,880	313	5.995
	15.9	65.9	181.94	83.95	2,992	325	5.969
	16.7	68.9	178.13	87.77	3,101	337	5.943
	17.5	71.9	174.37	91.59	3,209	349	5.919
	18.3	74.8	170.64	95.29	3,310	360	5.893
	19.1	77.7	166.96	98.98	3,409	370	5.868
	19.7	79.8	164.22	101.66	3,480	378	5.850
	20.6	83.0	160.16	105.73	3,585	390	5.822

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184	21.4	85.8	156.59	109.30	3,675	399	5.798
	22.2	88.6	153.06	112.87	3,763	409	5.773
	23.0	91.3	149.57	116.31	3,846	418	5.750
	23.8	94.0	146.12	119.75	3,926	427	5.725
	24.6	96.7	142.71	123.18	4,005	435	5.702
	25.4	99.3	139.35	126.50	4,079	444	5.678
	27.0	104.5	132.73	133.12	4,223	459	5.632
	28.6	109.6	126.28	139.62	4,357	474	5.586
	29.4	112.1	123.11	142.80	4,421	480	5.564
	30.2	114.5	119.98	145.86	4,479	487	5.541
	31.8	119.4	113.85	152.10	4,596	499	5.496
	33.3	123.8	108.25	157.71	4,696	510	5.456
	34.9	128.3	102.43	163.44	4,791	521	5.414
	36.5	132.8	96.77	169.17	4,882	531	5.372
	38.1	137.1	91.27	174.65	4,964	540	5.331
	40.0	142.1	84.95	181.02	5,054	549	5.283
	45.0	154.3	69.40	196.56	5,245	570	5.165
190	10.3	45.6	225.38	58.09	2,353	248	6.364
	10.7	47.3	223.26	60.25	2,430	256	6.350
	11.1	49.0	221.14	62.42	2,507	264	6.337
	11.5	50.6	219.04	64.46	2,578	271	6.324
	11.9	52.3	216.95	66.62	2,653	279	6.310
	12.7	55.5	212.79	70.70	2,792	294	6.284
	14.3	62.0	204.60	78.98	3,068	323	6.232
	15.8	67.9	197.06	86.50	3,308	348	6.184
	19.1	80.5	180.98	102.55	3,791	399	6.080
	20.6	86.1	173.90	109.68	3,992	420	6.032
	22.2	91.9	166.50	117.07	4,193	441	5.984
	23.0	94.7	162.86	120.64	4,285	451	5.959
	23.8	97.6	159.26	124.33	4,381	461	5.936
	24.6	100.3	155.70	127.77	4,466	470	5.912
	25.4	103.1	152.18	131.34	4,554	479	5.888
	26.2	105.8	148.71	134.78	4,636	488	5.864
	26.6	107.2	146.98	136.56	4,678	492	5.852
	27.0	108.5	145.27	138.22	4,716	497	5.841
	28.6	113.8	138.51	144.97	4,869	513	5.795
	45.0	160.9	78.54	204.97	5,906	622	5.367
193	2.6	12.2	277.00	15.54	704	73	6.730
	2.9	13.6	275.23	17.32	783	81	6.723

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193	3.2	15.0	273.47	19.11	861	89	6.712
	3.6	16.8	271.13	21.40	960	100	6.697
	4.0	18.6	268.80	23.69	1,058	110	6.682
	4.5	20.9	265.90	26.62	1,183	123	6.666
	5.1	23.6	262.45	30.06	1,328	138	6.646
	5.5	25.4	260.16	32.36	1,423	148	6.631
	5.6	25.9	259.58	32.99	1,450	150	6.629
	5.9	27.2	257.87	34.65	1,518	157	6.618
	6.4	29.5	255.03	37.58	1,638	169	6.602
	6.7	30.8	253.34	39.24	1,705	177	6.591
	7.1	32.6	251.09	41.53	1,797	186	6.577
	7.5	34.3	248.85	43.69	1,882	195	6.563
	7.6	34.7	248.29	44.20	1,902	197	6.559
	7.9	36.1	246.61	45.99	1,973	204	6.549
	8.3	37.8	244.39	48.15	2,057	213	6.536
	8.7	39.5	242.18	50.32	2,141	222	6.522
	9.1	41.3	239.98	52.61	2,229	231	6.509
	9.5	43.0	237.79	54.78	2,312	240	6.496
	9.9	44.7	235.61	56.94	2,393	248	6.482
	10.3	46.4	233.43	59.11	2,474	256	6.469
	10.7	48.1	231.27	61.27	2,554	265	6.456
	10.9	49.0	230.20	62.42	2,597	269	6.450
	11.1	49.8	229.12	63.44	2,634	273	6.443
	11.5	51.5	226.98	65.61	2,713	281	6.430
	11.9	53.1	224.85	67.64	2,785	289	6.416
	12.3	54.8	222.73	69.81	2,863	297	6.403
	12.7	56.5	220.62	71.97	2,939	304	6.390
	13.1	58.1	218.52	74.01	3,010	312	6.377
	13.5	59.8	216.42	76.18	3,086	320	6.364
	14.3	63.0	212.27	80.25	3,224	334	6.338
	15.1	66.2	208.16	84.33	3,360	348	6.312
	15.9	69.4	204.09	88.41	3,494	362	6.286
	16.7	72.6	200.06	92.48	3,625	376	6.260
	17.5	75.7	196.07	96.43	3,750	389	6.236
	18.3	78.8	192.12	100.38	3,872	401	6.210
	19.1	81.9	188.21	104.33	3,991	414	6.184
	19.8	84.6	184.82	107.77	4,094	424	6.163
	20.6	87.6	180.98	111.59	4,205	436	6.138
	21.4	90.6	177.19	115.41	4,314	447	6.113
	22.2	93.5	173.43	119.11	4,417	458	6.089
	23.0	96.4	169.72	122.80	4,517	468	6.064



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193	23.8	99.3	166.04	126.50	4,616	478	6.040
	24.6	102.2	162.41	130.19	4,713	488	6.016
	25.4	105.0	158.81	133.76	4,804	498	5.992
	25.8	106.4	157.03	135.54	4,849	502	5.981
	26.2	107.8	155.26	137.32	4,894	507	5.969
	26.6	109.2	153.50	139.11	4,938	511	5.957
	27.0	110.5	151.75	140.76	4,977	516	5.946
	28.6	116.0	144.84	147.77	5,143	533	5.899
	29.4	118.6	141.45	151.08	5,218	541	5.876
	30.2	121.3	138.09	154.52	5,295	549	5.853
	31.8	126.4	131.51	161.02	5,434	563	5.809
	33.3	131.2	125.48	167.13	5,560	576	5.767
	34.9	136.1	119.21	173.38	5,681	589	5.724
	36.5	140.9	113.10	179.49	5,794	600	5.681
	38.1	145.5	107.15	185.35	5,895	611	5.639
	45.0	164.2	83.32	209.17	6,257	649	5.469
198	5.6	26.6	274.06	33.89	1,569	158	6.804
	5.9	28.0	272.30	35.67	1,647	166	6.795
	6.4	30.2	269.38	38.47	1,767	179	6.777
	12.7	58.0	233.98	73.89	3,186	322	6.566
	13.1	59.7	231.81	76.05	3,266	330	6.553
	15.1	68.1	221.14	86.75	3,652	369	6.488
	20.6	90.1	193.10	114.78	4,576	462	6.314
	21.4	93.2	189.18	118.73	4,697	474	6.289
	23.0	99.3	181.46	126.50	4,926	497	6.240
	24.5	104.8	174.37	133.50	5,123	518	6.194
	25.4	108.1	170.18	137.71	5,239	529	6.167
	27.5	115.6	160.61	147.26	5,490	555	6.105
	29.4	122.2	152.18	155.67	5,700	576	6.051
	50.0	182.5	75.43	232.48	7,092	716	5.523
203	2.6	12.8	307.29	16.31	819	81	7.086
	2.9	14.3	305.42	18.22	912	90	7.074
	3.2	15.8	303.57	20.13	1,005	99	7.065
	3.6	17.7	301.10	22.55	1,121	110	7.050
	4.0	19.6	298.65	24.97	1,237	122	7.038
	4.5	22.0	295.59	28.03	1,381	136	7.019
	5.1	24.9	291.95	31.72	1,554	153	6.999
	5.6	27.3	288.93	34.78	1,695	167	6.981
	5.9	28.7	287.12	36.56	1,777	175	6.971

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203	6.4	31.0	284.13	39.49	1,910	188	6.954
	6.7	32.4	282.34	41.27	1,990	196	6.943
	7.1	34.3	279.96	43.69	2,099	207	6.931
	7.5	36.2	277.59	46.11	2,206	217	6.916
	7.9	38.0	275.23	48.41	2,307	227	6.903
	8.3	39.9	272.89	50.83	2,413	237	6.889
	8.7	41.7	270.55	53.12	2,512	247	6.876
	9.1	43.5	268.22	55.41	2,610	257	6.863
	9.5	45.3	265.90	57.71	2,708	267	6.850
	9.9	47.1	263.60	60.00	2,804	277	6.836
	10.3	48.9	261.30	62.29	2,900	286	6.823
	10.7	50.7	259.01	64.59	2,995	295	6.809
	11.1	52.5	256.74	66.88	3,089	305	6.796
	11.5	54.3	254.47	69.17	3,182	314	6.782
	11.9	56.1	252.21	71.46	3,275	323	6.769
	12.3	57.8	249.97	73.63	3,361	331	6.756
	12.7	59.6	247.73	75.92	3,452	340	6.743
	13.1	61.4	245.50	78.22	3,543	349	6.730
	13.5	63.1	243.28	80.38	3,626	357	6.716
	14.3	66.5	238.88	84.71	3,792	374	6.690
	15.1	70.0	234.52	89.17	3,961	390	6.664
	15.9	73.4	230.20	93.50	4,121	406	6.638
	17.5	80.1	221.67	102.04	4,428	436	6.587
	18.3	83.4	217.47	106.24	4,575	450	6.562
	19.1	86.6	213.31	110.32	4,714	465	6.536
	19.8	89.5	209.70	114.01	4,839	477	6.514
	20.6	92.7	205.61	118.09	4,974	490	6.489
	21.4	95.8	201.56	122.04	5,101	503	6.465
	22.2	99.0	197.56	126.11	5,231	515	6.440
	23.0	102.1	193.59	130.06	5,353	527	6.415
	23.8	105.2	189.67	134.01	5,474	539	6.391
	24.6	108.2	185.78	137.83	5,588	551	6.367
	25.4	111.3	181.94	141.78	5,704	562	6.342
	26.2	114.2	178.13	145.48	5,809	573	6.319
	27.0	117.2	174.37	149.30	5,917	583	6.295
	28.0	120.8	169.72	153.89	6,042	595	6.265
	28.6	123.0	166.96	156.69	6,117	603	6.248
	29.4	125.9	163.31	160.38	6,215	612	6.225
	30.2	128.7	159.71	163.95	6,306	621	6.201
	31.8	134.3	152.62	171.08	6,484	639	6.156
	33.3	139.4	146.12	177.58	6,639	654	6.114

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
203	34.9	144.7	139.35	184.33	6,792	669	6.070
	36.5	149.9	132.73	190.96	6,935	683	6.026
	38.1	154.9	126.28	197.32	7,065	696	5.983
	40.0	160.8	118.82	204.84	7,213	711	5.934
	43.0	169.7	107.51	216.18	7,417	731	5.857
	45.0	175.3	100.29	223.31	7,534	742	5.808
	50.0	188.7	83.32	240.38	7,785	767	5.690
	55.0	200.7	67.93	255.67	7,967	785	5.582
207	30.2	131.7	168.79	167.77	6,747	652	6.341
	36.5	153.5	141.03	195.54	7,431	718	6.164
	38.1	158.7	134.37	202.17	7,576	732	6.121
211	2.9	14.9	330.71	18.98	1,028	97	7.359
	3.2	16.4	328.78	20.89	1,128	107	7.348
	3.6	18.4	326.21	23.44	1,261	120	7.334
	4.0	20.4	323.65	25.99	1,393	132	7.321
	4.5	22.9	320.47	29.17	1,556	148	7.303
	5.1	25.9	316.68	32.99	1,749	166	7.281
	5.6	28.4	313.53	36.18	1,909	181	7.263
	5.9	29.8	311.65	37.96	1,998	190	7.254
	6.4	32.3	308.53	41.15	2,155	204	7.236
	6.7	33.8	306.66	43.06	2,249	213	7.226
	7.1	35.7	304.19	45.48	2,366	224	7.212
	7.5	37.6	301.72	47.90	2,483	236	7.199
	7.9	39.6	299.26	50.45	2,605	247	7.185
	8.3	41.5	296.81	52.87	2,720	258	7.172
	8.7	43.4	294.37	55.29	2,834	269	7.159
	9.1	45.3	291.95	57.71	2,947	279	7.146
	9.5	47.2	289.53	60.13	3,059	290	7.132
	9.9	49.1	287.12	62.55	3,170	300	7.118
	10.3	51.0	284.72	64.97	3,280	311	7.105
	10.7	52.9	282.34	67.39	3,389	321	7.091
	11.1	54.7	279.96	69.68	3,491	331	7.078
	11.5	56.6	277.59	72.10	3,599	341	7.065
	11.9	58.4	275.23	74.39	3,699	351	7.051
	12.3	60.3	272.89	76.82	3,806	361	7.038
	12.7	62.1	270.55	79.11	3,904	370	7.024
	13.1	63.9	268.22	81.40	4,002	380	7.011
	13.5	65.8	265.90	83.82	4,106	389	6.998
	14.3	69.4	261.30	88.41	4,298	407	6.972

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211	15.1	73.0	256.74	92.99	4,487	425	6.946
	15.9	76.5	252.21	97.45	4,667	442	6.920
	16.7	80.0	247.73	101.91	4,845	459	6.895
	17.5	83.5	243.28	106.37	5,019	476	6.869
	18.3	87.0	238.88	110.83	5,191	492	6.843
	19.1	90.4	234.52	115.16	5,354	507	6.818
	19.8	93.4	230.73	118.98	5,495	521	6.795
	20.6	96.7	226.45	123.18	5,647	535	6.770
	21.4	100.1	222.20	127.52	5,803	550	6.745
	22.2	103.4	217.99	131.72	5,950	564	6.721
	23.0	106.6	213.82	135.80	6,089	577	6.696
	23.8	109.9	209.70	140.00	6,232	591	6.671
	24.6	113.1	205.61	144.08	6,367	603	6.647
	25.4	116.3	201.56	148.15	6,499	616	6.623
	27.0	122.5	193.59	156.05	6,746	640	6.574
	28.6	128.7	185.78	163.95	6,986	662	6.527
	29.4	131.7	181.94	167.77	7,097	673	6.503
	30.2	134.7	178.13	171.59	7,207	683	6.480
	31.8	140.5	170.64	178.98	7,411	703	6.434
	33.3	145.9	163.77	185.86	7,594	720	6.392
	34.9	151.6	156.59	193.12	7,780	737	6.347
	35.5	153.7	153.94	195.80	7,847	744	6.330
	36.5	157.1	149.57	200.13	7,951	754	6.303
	38.1	162.5	142.71	207.01	8,111	769	6.259
	40.0	168.7	134.78	214.90	8,285	785	6.209
216	42.5	176.6	124.69	224.97	8,492	805	6.143
	45.0	184.2	114.99	234.65	8,676	823	6.080
	47.5	191.5	105.68	243.95	8,840	838	6.019
	50.0	198.5	96.77	252.87	8,984	852	5.960
	2.6	13.7	349.00	17.45	993	92	7.543
	2.9	15.2	347.02	19.36	1,099	102	7.534
	3.2	16.8	345.04	21.40	1,212	112	7.525
	3.6	18.9	342.41	24.08	1,358	125	7.509
	4.0	20.9	339.79	26.62	1,496	139	7.496
	4.5	23.5	336.53	29.94	1,675	155	7.479
216	5.1	26.5	332.64	33.76	1,878	174	7.458
	5.6	29.1	329.42	37.07	2,053	190	7.441
	5.9	30.6	327.49	38.98	2,153	199	7.431
	6.4	33.1	324.29	42.17	2,318	214	7.414
	6.7	34.6	322.38	44.08	2,416	224	7.403

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216	7.1	36.6	319.84	46.62	2,546	236	7.389
	7.5	38.6	317.31	49.17	2,675	248	7.375
	7.9	40.5	314.79	51.59	2,797	259	7.363
	8.3	42.5	312.28	54.14	2,924	271	7.349
	8.7	44.5	309.78	56.69	3,051	282	7.336
	9.1	46.4	307.29	59.11	3,169	294	7.322
	9.5	48.4	304.80	61.66	3,294	305	7.309
	9.9	50.3	302.33	64.08	3,410	316	7.294
	10.3	52.3	299.87	66.62	3,532	327	7.281
	10.7	54.2	297.42	69.04	3,647	338	7.268
	11.1	56.1	294.98	71.46	3,761	348	7.254
	11.5	58.0	292.55	73.89	3,875	359	7.241
	11.9	59.9	290.13	76.31	3,987	369	7.228
	12.3	61.8	287.72	78.73	4,098	379	7.214
	12.7	63.7	285.32	81.15	4,209	390	7.201
	13.1	65.6	282.93	83.57	4,318	400	7.188
	13.5	67.4	280.55	85.86	4,421	409	7.175
	14.3	71.1	275.82	90.57	4,629	429	7.149
	15.1	74.8	271.13	95.29	4,835	448	7.123
	15.9	78.5	266.48	100.00	5,037	466	7.097
	16.3	80.3	264.17	102.29	5,133	475	7.083
	17.5	85.7	257.30	109.17	5,419	502	7.045
	18.3	89.2	252.78	113.63	5,599	519	7.019
	19.1	92.7	248.29	118.09	5,777	535	6.994
	19.8	95.8	244.39	122.04	5,932	549	6.971
	20.6	99.3	239.98	126.50	6,104	565	6.946
	21.4	102.7	235.61	130.83	6,268	580	6.921
	22.2	106.1	231.27	135.16	6,429	595	6.896
	23.0	109.5	226.98	139.49	6,587	610	6.871
	23.8	112.8	222.73	143.69	6,737	624	6.847
	24.6	116.1	218.52	147.90	6,885	638	6.822
	25.4	119.4	214.34	152.10	7,030	651	6.798
	27.0	125.9	206.12	160.38	7,307	676	6.749
	28.6	132.2	198.06	168.41	7,565	700	6.702
	29.4	135.3	194.09	172.36	7,688	712	6.678
	30.2	138.4	190.16	176.31	7,809	723	6.655
	31.8	144.5	182.41	184.08	8,040	744	6.608
	33.3	150.0	175.30	191.08	8,238	763	6.566
	34.9	155.9	167.87	198.60	8,444	782	6.520
	36.5	161.6	160.61	205.86	8,634	799	6.476
	38.1	167.2	153.50	212.99	8,812	816	6.432

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216	40.0	173.6	145.27	221.15	9,005	834	6.381
	43.0	183.5	132.73	233.76	9,286	860	6.302
	45.0	189.8	124.69	241.78	9,449	875	6.251
	48.0	198.9	113.10	253.38	9,669	895	6.177
	50.0	204.7	105.68	260.76	9,797	907	6.129
	52.5	211.7	96.77	269.68	9,941	920	6.071
	60.0	230.8	72.38	294.01	10,267	951	5.909
219	2.6	13.9	359.01	17.71	1,037	95	7.652
	2.9	15.5	357.00	19.75	1,153	105	7.640
	3.2	17.0	354.99	21.66	1,261	115	7.630
	3.6	19.1	352.32	24.33	1,411	129	7.615
	4.0	21.2	349.67	27.01	1,561	143	7.602
	4.5	23.8	346.36	30.32	1,745	159	7.586
	4.8	25.4	344.38	32.36	1,857	169	7.575
	5.0	26.4	343.07	33.63	1,926	176	7.567
	5.1	26.9	342.41	34.27	1,961	179	7.564
	5.6	29.5	339.14	37.58	2,141	195	7.547
	5.9	31.0	337.19	39.49	2,243	205	7.536
	6.0	31.5	336.53	40.13	2,278	208	7.534
	6.3	33.0	334.59	42.04	2,380	218	7.524
	6.4	33.6	333.94	42.80	2,420	221	7.519
	6.5	34.1	333.29	43.44	2,454	224	7.516
	6.7	35.1	332.00	44.71	2,521	230	7.509
	6.8	35.6	331.35	45.35	2,555	233	7.505
	7.0	36.6	330.06	46.62	2,622	239	7.499
	7.1	37.1	329.42	47.26	2,656	243	7.496
	7.5	39.1	326.85	49.81	2,789	255	7.482
	7.7	40.1	325.57	51.08	2,855	261	7.476
	7.9	41.1	324.29	52.36	2,921	267	7.469
	8.0	41.6	323.65	52.99	2,953	270	7.465
	8.2	42.6	322.38	54.27	3,019	276	7.458
	8.3	43.1	321.74	54.90	3,051	279	7.454
	8.5	44.1	320.47	56.18	3,117	285	7.448
	8.7	45.1	319.21	57.45	3,181	291	7.441
	8.8	45.6	318.57	58.09	3,214	294	7.438
	8.9	46.1	317.94	58.73	3,246	297	7.434
	9.1	47.1	316.68	60.00	3,311	302	7.428
	9.5	49.1	314.16	62.55	3,439	314	7.414
	9.9	51.1	311.65	65.10	3,566	325	7.401
	10.0	51.5	311.03	65.61	3,591	328	7.398

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219	10.2	52.5	309.78	66.88	3,653	334	7.390
	10.3	53.0	309.15	67.52	3,685	337	7.387
	10.7	55.0	306.66	70.06	3,810	348	7.374
	11.1	56.9	304.19	72.48	3,927	359	7.360
	11.4	58.4	302.33	74.39	4,020	367	7.351
	11.5	58.8	301.72	74.90	4,044	370	7.347
	11.9	60.8	299.26	77.45	4,166	380	7.334
	12.0	61.3	298.65	78.09	4,197	383	7.331
	12.3	62.7	296.81	79.87	4,281	391	7.321
	12.5	63.7	295.59	81.15	4,341	396	7.313
	12.7	64.6	294.37	82.29	4,394	401	7.307
	13.1	66.5	291.95	84.71	4,507	412	7.294
	13.5	68.4	289.53	87.13	4,619	422	7.281
	13.9	70.3	287.12	89.55	4,730	432	7.267
	14.1	71.3	285.92	90.83	4,789	437	7.261
	14.3	72.2	284.72	91.97	4,841	442	7.255
	14.7	74.1	282.34	94.39	4,950	452	7.241
	15.1	75.9	279.96	96.69	5,052	462	7.228
	15.5	77.8	277.59	99.11	5,160	471	7.215
	15.9	79.6	275.23	101.40	5,260	481	7.202
	16.3	81.5	272.89	103.82	5,367	490	7.189
	16.7	83.3	270.55	106.11	5,465	499	7.176
	17.5	87.0	265.90	110.83	5,667	517	7.150
	18.3	90.6	261.30	115.41	5,859	535	7.125
	18.6	91.9	259.58	117.07	5,928	541	7.115
	19.1	94.2	256.74	120.00	6,049	552	7.099
	19.8	97.3	252.78	123.95	6,209	567	7.077
	20.6	100.8	248.29	128.41	6,386	583	7.052
	21.4	104.3	243.84	132.87	6,561	599	7.027
	22.2	107.7	239.43	137.20	6,727	615	7.002
	23.0	111.2	235.06	141.66	6,896	630	6.977
	23.8	114.6	230.73	145.99	7,057	644	6.952
	24.6	117.9	226.45	150.19	7,208	659	6.927
	25.4	121.3	222.20	154.52	7,364	672	6.903
	26.0	123.8	219.04	157.71	7,476	683	6.884
	27.0	127.8	213.82	162.80	7,650	699	6.854
	28.6	134.3	205.61	171.08	7,927	724	6.806
	29.0	135.9	203.58	173.12	7,994	730	6.795
	29.4	137.5	201.56	175.16	8,060	736	6.783
	29.8	139.0	199.56	177.07	8,120	742	6.771
	30.2	140.6	197.56	179.11	8,185	748	6.760

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219	31.8	146.8	189.67	187.01	8,428	770	6.713
	33.3	152.5	182.41	194.27	8,643	789	6.670
	34.9	158.5	174.83	201.91	8,862	809	6.625
	35.0	158.8	174.37	202.29	8,871	810	6.622
	36.0	162.5	169.72	207.01	9,001	822	6.594
	36.5	164.3	167.42	209.30	9,062	827	6.580
	37.5	167.9	162.86	213.89	9,184	838	6.552
	38.1	170.0	160.16	216.56	9,252	845	6.536
	40.0	176.6	151.75	224.97	9,460	864	6.484
	42.5	185.0	141.03	235.67	9,709	887	6.418
	45.0	193.1	130.70	245.99	9,932	907	6.354
	45.8	195.6	127.48	249.17	9,997	913	6.334
	47.0	199.4	122.72	254.01	10,095	922	6.304
	47.5	200.9	120.76	255.92	10,131	925	6.291
	50.0	208.4	111.22	265.48	10,308	941	6.231
	52.5	215.6	102.07	274.65	10,464	955	6.172
	55.0	222.5	93.31	283.44	10,601	968	6.115
	60.0	235.3	76.98	299.75	10,821	988	6.008
	63.0	242.4	67.93	308.79	10,925	998	5.948
	65.0	246.9	62.21	314.52	10,985	1,003	5.909
222	11.5	59.7	311.03	76.05	4,225	381	7.453
	25.4	123.2	230.20	156.94	7,709	694	7.008
	30.2	142.9	205.10	182.04	8,578	773	6.864
	31.4	147.6	199.06	188.03	8,770	790	6.829
	33.3	155.0	189.67	197.45	9,062	816	6.774
	37.0	168.8	172.03	215.03	9,567	862	6.670
	39.5	177.8	160.61	226.50	9,872	889	6.601
	40.6	181.6	155.70	231.34	9,992	900	6.572
	45.5	198.1	134.78	252.36	10,480	944	6.444
	47.0	202.8	128.68	258.34	10,603	955	6.406
	48.5	207.5	122.72	264.33	10,723	966	6.369
	50.0	212.1	116.90	270.19	10,836	976	6.332
	60.0	239.7	81.71	305.35	11,391	1,026	6.107
226	2.9	16.0	380.82	20.38	1,268	112	7.887
	3.2	17.6	378.75	22.42	1,391	123	7.876
	3.6	19.7	376.00	25.10	1,552	138	7.863
	4.0	21.9	373.25	27.90	1,719	152	7.849
	4.5	24.6	369.84	31.34	1,923	170	7.833
	5.1	27.8	365.76	35.41	2,161	191	7.812

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226	5.6	30.4	362.37	38.73	2,353	208	7.794
	5.9	32.0	360.35	40.76	2,470	219	7.784
	6.4	34.7	357.00	44.20	2,667	236	7.767
	6.7	36.2	354.99	46.11	2,775	246	7.757
	7.1	38.3	352.32	48.79	2,925	259	7.742
	7.5	40.4	349.67	51.46	3,075	272	7.730
	7.9	42.5	347.02	54.14	3,223	285	7.715
	8.3	44.6	344.38	56.82	3,371	298	7.702
	8.7	46.6	341.76	59.36	3,509	311	7.688
	9.1	48.7	339.14	62.04	3,655	323	7.675
	9.5	50.7	336.53	64.59	3,792	336	7.662
	9.9	52.8	333.94	67.26	3,934	348	7.647
	10.3	54.8	331.35	69.81	4,069	360	7.634
	10.7	56.8	328.78	72.36	4,203	372	7.621
	11.1	58.8	326.21	74.90	4,335	384	7.607
	11.5	60.8	323.65	77.45	4,467	396	7.594
	11.9	62.8	321.11	80.00	4,598	407	7.581
	12.3	64.8	318.57	82.55	4,728	419	7.567
	12.7	66.8	316.05	85.10	4,857	430	7.554
	13.1	68.8	313.53	87.64	4,984	441	7.541
	13.5	70.7	311.03	90.06	5,104	452	7.528
	14.3	74.7	306.04	95.16	5,355	474	7.501
	15.1	78.5	301.10	100.00	5,588	495	7.475
	15.9	82.4	296.20	104.97	5,825	515	7.449
	16.7	86.2	291.34	109.81	6,051	536	7.423
	17.5	90.0	286.52	114.65	6,274	555	7.397
	18.3	93.7	281.74	119.36	6,486	574	7.371
	19.1	97.5	277.00	124.20	6,703	593	7.346
	19.8	100.7	272.89	128.28	6,881	609	7.323
	20.6	104.4	268.22	132.99	7,084	627	7.298
	21.4	108.0	263.60	137.58	7,278	644	7.273
	22.2	111.6	259.01	142.17	7,469	661	7.248
	23.0	115.1	254.47	146.62	7,650	677	7.223
	23.8	118.7	249.97	151.21	7,835	693	7.198
	24.6	122.2	245.50	155.67	8,011	709	7.173
	25.4	125.7	241.08	160.13	8,184	724	7.148
	27.0	132.5	232.35	168.79	8,509	753	7.100
	28.6	139.2	223.79	177.32	8,818	781	7.051
	29.4	142.5	219.56	181.53	8,967	794	7.028
	30.2	145.8	215.38	185.73	9,112	807	7.004
	31.8	152.3	207.14	194.01	9,391	831	6.957

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
226	33.3	158.3	199.56	201.66	9,640	853	6.913
	34.9	164.5	191.62	209.55	9,885	875	6.868
	36.5	170.6	183.85	217.32	10,117	895	6.822
	38.1	176.6	176.24	224.97	10,337	915	6.778
	40.0	183.5	167.42	233.76	10,576	936	6.726
	42.5	192.3	156.14	244.97	10,864	962	6.659
	45.0	200.9	145.27	255.92	11,128	985	6.594
	47.5	209.1	134.78	266.37	11,360	1,005	6.530
	50.0	217.0	124.69	276.43	11,567	1,024	6.468
	52.5	224.6	114.99	286.11	11,751	1,040	6.408
	55.0	231.9	105.68	295.41	11,915	1,055	6.350
	57.5	238.9	96.77	304.33	12,059	1,067	6.294
	65.0	258.1	72.38	328.79	12,390	1,096	6.138
	67.0	262.7	66.48	334.65	12,453	1,102	6.100
229	2.6	14.5	393.38	18.47	1,184	103	8.006
	2.9	16.2	391.27	20.64	1,319	115	7.994
	3.2	17.8	389.17	22.68	1,446	126	7.984
	3.6	20.0	386.38	25.48	1,619	141	7.971
	4.0	22.2	383.60	28.28	1,790	156	7.955
	4.5	24.9	380.13	31.72	1,999	175	7.938
	5.1	28.2	376.00	35.92	2,252	196	7.918
	5.6	30.9	372.57	39.36	2,457	214	7.900
	5.9	32.5	370.52	41.40	2,578	225	7.891
	6.4	35.1	367.11	44.71	2,772	242	7.874
	6.7	36.7	365.08	46.75	2,890	253	7.862
	7.1	38.9	362.37	49.55	3,053	266	7.849
	7.5	41.0	359.68	52.23	3,207	280	7.835
	7.9	43.1	357.00	54.90	3,359	293	7.822
	8.3	45.2	354.32	57.58	3,511	306	7.808
	8.7	47.3	351.66	60.25	3,661	320	7.795
	9.1	49.4	349.00	62.93	3,810	332	7.780
	9.5	51.4	346.36	65.48	3,951	345	7.767
	9.9	53.5	343.73	68.15	4,098	358	7.754
	10.3	55.6	341.10	70.83	4,244	370	7.740
	10.7	57.6	338.49	73.38	4,382	383	7.727
	11.1	59.6	335.88	75.92	4,518	395	7.714
	11.5	61.7	333.29	78.60	4,661	407	7.700
	11.9	63.7	330.71	81.15	4,795	419	7.686
	12.3	65.7	328.13	83.69	4,928	431	7.673
	12.7	67.7	325.57	86.24	5,061	442	7.660

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229	13.1	69.8	323.02	88.92	5,200	454	7.647
	13.5	71.7	320.47	91.34	5,323	465	7.633
	14.3	75.7	315.42	96.43	5,581	488	7.607
	15.1	79.7	310.40	101.53	5,836	509	7.581
	15.9	83.6	305.42	106.50	6,079	531	7.555
	16.7	87.4	300.49	111.34	6,312	551	7.529
	17.5	91.3	295.59	116.31	6,548	572	7.503
	18.3	95.1	290.74	121.15	6,774	592	7.477
	19.1	98.9	285.92	125.99	6,996	611	7.451
	19.8	102.2	281.74	130.19	7,186	627	7.429
	20.6	105.9	277.00	134.90	7,395	646	7.403
	21.4	109.6	272.30	139.62	7,602	664	7.378
	22.2	113.2	267.64	144.20	7,797	681	7.353
	23.0	116.8	263.02	148.79	7,991	698	7.328
	23.8	120.4	258.44	153.38	8,182	715	7.303
	24.6	124.0	253.90	157.96	8,369	731	7.278
	25.4	127.5	249.40	162.42	8,547	747	7.254
	27.0	134.5	240.53	171.34	8,895	777	7.205
	28.6	141.3	231.81	180.00	9,220	806	7.156
	29.4	144.7	227.51	184.33	9,379	819	7.133
	30.2	148.1	223.26	188.66	9,535	833	7.109
	31.8	154.7	214.86	197.07	9,829	858	7.062
	33.3	160.7	207.14	204.71	10,084	881	7.018
	34.9	167.1	199.06	212.87	10,349	904	6.972
	36.5	173.3	191.13	220.76	10,593	925	6.927
	38.1	179.4	183.37	228.54	10,825	945	6.882
	40.0	186.4	174.37	237.45	11,077	968	6.830
	45.0	204.2	151.75	260.13	11,667	1,019	6.697
	48.0	214.3	138.93	272.99	11,965	1,045	6.620
	50.0	220.7	130.70	281.15	12,139	1,060	6.570
	55.0	236.0	111.22	300.64	12,515	1,093	6.451
	60.0	250.1	93.31	318.60	12,808	1,118	6.340
	65.0	262.9	76.98	334.90	13,028	1,138	6.237
	68.0	270.0	67.93	343.95	13,132	1,147	6.178
	70.0	274.5	62.21	349.68	13,192	1,152	6.142
235	2.9	16.6	412.59	21.15	1,424	121	8.205
	3.2	18.3	410.43	23.31	1,566	133	8.196
	3.6	20.5	407.57	26.11	1,748	149	8.182
	4.0	22.8	404.71	29.04	1,938	165	8.169
	4.5	25.6	401.15	32.61	2,167	184	8.151



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
235	5.1	28.9	396.90	36.82	2,434	207	8.130
	5.6	31.7	393.38	40.38	2,658	226	8.113
	5.9	33.3	391.27	42.42	2,785	237	8.102
	6.4	36.1	387.77	45.99	3,007	256	8.086
	6.7	37.7	385.68	48.03	3,132	267	8.075
	7.1	39.9	382.90	50.83	3,303	281	8.061
	7.5	42.1	380.13	53.63	3,473	295	8.047
	7.9	44.2	377.37	56.31	3,635	310	8.034
	8.3	46.4	374.62	59.11	3,802	324	8.020
	8.7	48.6	371.88	61.91	3,969	337	8.006
	9.1	50.7	369.15	64.59	4,127	351	7.993
	9.5	52.8	366.44	67.26	4,283	365	7.979
	9.9	55.0	363.73	70.06	4,446	378	7.966
	10.3	57.1	361.03	72.74	4,600	391	7.952
	10.7	59.2	358.34	75.41	4,753	404	7.939
	11.1	61.3	355.66	78.09	4,905	417	7.925
	11.5	63.4	352.99	80.76	5,056	430	7.912
	11.9	65.5	350.33	83.44	5,206	443	7.898
	12.3	67.6	347.68	86.11	5,355	455	7.885
	12.7	69.6	345.04	88.66	5,495	468	7.872
	13.1	71.7	342.41	91.34	5,642	480	7.859
	13.5	73.7	339.79	93.89	5,779	492	7.845
	14.3	77.8	334.59	99.11	6,060	516	7.819
	15.1	81.9	329.42	104.33	6,336	539	7.792
	15.9	85.9	324.29	109.43	6,601	562	7.766
	16.5	88.9	320.47	113.25	6,797	579	7.747
	16.7	89.9	319.21	114.52	6,862	584	7.740
	17.5	93.9	314.16	119.62	7,119	606	7.714
	18.3	97.8	309.15	124.59	7,365	627	7.688
	19.1	101.7	304.19	129.55	7,607	647	7.662
	19.8	105.1	299.87	133.89	7,816	665	7.640
	20.6	108.9	294.98	138.73	8,045	685	7.615
	21.4	112.7	290.13	143.57	8,270	704	7.589
	22.2	116.5	285.32	148.41	8,492	723	7.564
	23.0	120.3	280.55	153.25	8,711	741	7.539
	23.8	124.0	275.82	157.96	8,919	759	7.514
	24.6	127.6	271.13	162.55	9,118	776	7.489
	25.4	131.3	266.48	167.26	9,320	793	7.464
	27.0	138.5	257.30	176.43	9,702	826	7.415
	28.6	145.6	248.29	185.48	10,067	857	7.367
	29.4	149.1	243.84	189.94	10,241	871	7.342

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
235	30.2	152.5	239.43	194.27	10,407	886	7.319
	31.8	159.4	230.73	203.06	10,737	914	7.271
	33.3	165.6	222.73	210.96	11,020	938	7.227
	34.9	172.2	214.34	219.36	11,313	963	7.181
	36.5	178.7	206.12	227.64	11,591	986	7.135
	38.1	185.0	198.06	235.67	11,849	1,008	7.090
	40.0	192.4	188.69	245.10	12,140	1,033	7.037
	43.0	203.6	174.37	259.36	12,551	1,068	6.956
	45.0	210.9	165.13	268.66	12,803	1,089	6.903
	50.0	228.1	143.14	290.57	13,339	1,135	6.775
	52.5	236.3	132.73	301.02	13,569	1,155	6.713
	60.0	259.0	103.87	329.94	14,115	1,201	6.540
	65.0	272.5	86.59	347.13	14,373	1,223	6.434
238	17.5	95.2	323.65	121.27	7,417	623	7.820
	23.2	122.9	288.32	156.56	9,135	768	7.638
	33.0	166.8	232.35	212.48	11,451	962	7.341
	35.4	176.9	219.56	225.35	11,915	1,001	7.271
	40.0	195.3	196.07	248.79	12,690	1,066	7.141
	50.0	231.8	149.57	295.29	13,969	1,174	6.877
	65.0	277.3	91.61	353.25	15,081	1,267	6.533
241	28.0	147.1	268.80	187.39	10,811	897	7.595
	30.0	156.1	257.30	198.85	11,290	937	7.534
	37.0	186.1	219.04	237.07	12,738	1,057	7.330
	38.6	192.7	210.73	245.48	13,028	1,081	7.285
	50.0	235.5	156.14	300.00	14,618	1,213	6.980
	55.0	252.3	134.78	321.40	15,114	1,254	6.857
	57.5	260.2	124.69	331.46	15,321	1,272	6.798
	60.0	267.8	114.99	341.15	15,506	1,287	6.741
244	2.6	15.5	447.88	19.75	1,439	118	8.535
	2.9	17.2	445.63	21.91	1,592	131	8.524
	3.2	19.0	443.39	24.20	1,754	144	8.513
	3.6	21.3	440.41	27.13	1,960	161	8.499
	4.0	23.7	437.43	30.19	2,174	178	8.485
	4.5	26.6	433.74	33.89	2,431	199	8.469
	5.0	29.5	430.05	37.58	2,684	220	8.451
	5.1	30.0	429.32	38.22	2,728	224	8.448
	5.6	32.9	425.65	41.91	2,979	244	8.430
	5.9	34.6	423.46	44.08	3,126	257	8.421



Technical data of tubes

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244	6.4	37.5	419.82	47.77	3,373	277	8.402
	6.7	39.2	417.65	49.94	3,518	288	8.393
	7.1	41.5	414.75	52.87	3,712	304	8.379
	7.5	43.7	411.87	55.67	3,896	320	8.365
	7.9	46.0	409.00	58.60	4,088	335	8.352
	8.0	46.6	408.28	59.36	4,137	339	8.348
	8.3	48.2	406.14	61.40	4,269	350	8.338
	8.7	50.5	403.28	64.33	4,458	365	8.324
	8.9	51.6	401.86	65.73	4,548	373	8.318
	9.1	52.7	400.44	67.13	4,637	380	8.311
	9.5	54.9	397.61	69.94	4,815	395	8.297
	9.9	57.2	394.79	72.87	5,001	410	8.284
	10.0	57.7	394.08	73.50	5,040	413	8.280
	10.3	59.4	391.97	75.67	5,176	424	8.270
	10.7	61.6	389.17	78.47	5,350	438	8.257
	11.1	63.8	386.38	81.27	5,523	452	8.243
	11.5	65.9	383.60	83.95	5,686	466	8.229
	11.9	68.1	380.82	86.75	5,857	480	8.216
	12.0	68.7	380.13	87.52	5,904	484	8.213
	12.3	70.3	378.06	89.55	6,026	494	8.203
	12.5	71.4	376.68	90.96	6,111	501	8.196
	12.7	72.4	375.31	92.23	6,186	507	8.189
	13.1	74.6	372.57	95.03	6,354	521	8.176
	13.4	76.2	370.52	97.07	6,474	531	8.166
	13.5	76.7	369.84	97.71	6,511	534	8.163
	13.8	78.3	367.79	99.75	6,631	544	8.153
	14.2	80.5	365.08	102.55	6,795	557	8.140
	14.3	81.0	364.40	103.18	6,831	560	8.136
	14.6	82.6	362.37	105.22	6,949	570	8.126
	15.1	85.2	359.01	108.54	7,140	585	8.110
	15.4	86.8	357.00	110.57	7,255	595	8.100
	15.9	89.4	353.66	113.89	7,443	610	8.084
	16.7	93.6	348.34	119.24	7,742	635	8.057
	17.1	95.7	345.70	121.91	7,890	647	8.044
	17.5	97.8	343.07	124.59	8,037	658	8.031
	18.3	101.9	337.84	129.81	8,320	682	8.005
	18.6	103.4	335.88	131.72	8,422	690	7.996
	19.1	105.9	332.64	134.90	8,591	704	7.980
	19.8	109.5	328.13	139.49	8,833	724	7.957
	20.2	111.5	325.57	142.04	8,965	735	7.944
	20.6	113.5	323.02	144.59	9,097	746	7.931

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244	21.4	117.5	317.94	149.68	9,357	767	7.906
	22.2	121.4	312.90	154.65	9,605	788	7.880
	23.0	125.4	307.91	159.75	9,859	808	7.855
	23.8	129.2	302.95	164.59	10,092	828	7.830
	25.4	136.9	293.16	174.39	10,557	866	7.780
	27.0	144.5	283.53	184.08	11,003	902	7.731
	28.6	151.9	274.06	193.50	11,420	936	7.682
	29.4	155.6	269.38	198.22	11,625	953	7.658
	30.2	159.2	264.75	202.80	11,819	969	7.634
	31.8	166.4	255.60	211.97	12,199	1,000	7.586
	33.3	173.0	247.17	220.38	12,535	1,028	7.541
	34.9	180.0	238.33	229.30	12,881	1,056	7.494
	36.5	186.8	229.66	237.96	13,203	1,082	7.448
	38.0	193.1	221.67	245.99	13,493	1,106	7.406
	38.1	193.5	221.14	246.50	13,510	1,107	7.403
	40.0	201.2	211.24	256.31	13,846	1,135	7.349
	42.5	211.2	198.56	269.04	14,262	1,169	7.280
	45.0	220.8	186.26	281.27	14,635	1,200	7.213
	47.5	230.2	174.37	293.25	14,981	1,228	7.147
	50.0	239.2	162.86	304.71	15,287	1,253	7.083
	55.0	256.4	141.03	326.62	15,819	1,296	6.959
	60.0	272.3	120.76	346.88	16,241	1,331	6.842
	62.5	279.8	111.22	356.43	16,417	1,345	6.786
	65.0	286.9	102.07	365.48	16,568	1,358	6.732
	70.0	300.4	84.95	382.68	16,826	1,379	6.630
	75.0	312.6	69.40	398.22	17,017	1,395	6.537
246	4.5	26.8	441.15	34.14	2,490	202	8.540
	5.1	30.3	436.69	38.60	2,801	228	8.518
	5.6	33.2	433.00	42.29	3,057	249	8.502
	5.9	34.9	430.79	44.46	3,206	261	8.491
	6.4	37.8	427.12	48.15	3,458	281	8.474
	6.7	39.5	424.92	50.32	3,605	293	8.464
	7.1	41.8	422.00	53.25	3,802	309	8.449
	7.5	44.1	419.10	56.18	3,999	325	8.436
	7.9	46.4	416.20	59.11	4,193	341	8.422
	8.3	48.7	413.31	62.04	4,387	356	8.409
	8.7	50.9	410.43	64.84	4,570	372	8.395
	9.1	53.2	407.57	67.77	4,761	387	8.381
	9.5	55.4	404.71	70.57	4,942	402	8.368
	9.9	57.6	401.86	73.38	5,122	417	8.354

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
246	10.3	59.9	399.02	76.31	5,309	431	8.340
	10.7	62.1	396.20	79.11	5,486	446	8.327
	11.1	64.3	393.38	81.91	5,662	460	8.314
	11.5	66.5	390.57	84.71	5,837	475	8.300
	11.9	68.7	387.77	87.52	6,011	489	8.287
	12.3	70.9	384.99	90.32	6,183	503	8.273
	12.7	73.1	382.21	93.12	6,354	516	8.260
	13.1	75.2	379.44	95.80	6,516	530	8.247
	13.5	77.4	376.68	98.60	6,685	544	8.234
	25.0	136.3	301.72	173.63	10,736	873	7.863
250	2.3	14.1	472.98	17.96	1,378	110	8.759
	2.6	15.9	470.67	20.25	1,549	124	8.746
	2.9	17.7	468.36	22.55	1,721	137	8.736
	3.2	19.5	466.06	24.84	1,892	151	8.727
	3.6	21.9	463.01	27.90	2,118	169	8.712
	4.0	24.3	459.96	30.96	2,343	187	8.699
	4.5	27.2	456.17	34.65	2,611	209	8.680
	5.1	30.8	451.64	39.24	2,943	235	8.660
	5.6	33.8	447.88	43.06	3,217	257	8.643
	5.9	35.5	445.63	45.22	3,370	270	8.632
	6.4	38.4	441.89	48.92	3,631	291	8.615
	6.7	40.2	439.66	51.21	3,792	303	8.605
	7.1	42.5	436.69	54.14	3,996	320	8.591
	7.5	44.9	433.74	57.20	4,209	336	8.578
	7.9	47.2	430.79	60.13	4,410	353	8.563
	8.3	49.5	427.85	63.06	4,610	369	8.550
	8.7	51.8	424.92	65.99	4,809	385	8.536
	9.1	54.1	422.00	68.92	5,007	400	8.523
	9.5	56.3	419.10	71.72	5,193	416	8.509
	9.9	58.6	416.20	74.65	5,388	431	8.495
	10.3	60.9	413.31	77.58	5,582	446	8.482
	10.7	63.1	410.43	80.38	5,765	462	8.468
	11.1	65.4	407.57	83.31	5,956	476	8.455
	11.5	67.6	404.71	86.11	6,137	491	8.442
	11.9	69.9	401.86	89.04	6,326	506	8.428
	12.3	72.1	399.02	91.85	6,504	520	8.414
	12.7	74.3	396.20	94.65	6,681	535	8.401
	13.1	76.5	393.38	97.45	6,857	549	8.388
	13.5	78.7	390.57	100.25	7,032	563	8.375
	14.3	83.1	384.99	105.86	7,378	590	8.348

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250	15.1	87.5	379.44	111.46	7,719	617	8.321
	15.9	91.8	373.94	116.94	8,048	644	8.295
	17.5	100.3	363.05	127.77	8,682	695	8.243
	18.3	104.6	357.67	133.25	8,998	720	8.217
	19.1	108.8	352.32	138.60	9,300	744	8.191
	19.8	112.4	347.68	143.18	9,554	764	8.168
	20.6	116.5	342.41	148.41	9,841	788	8.143
	21.4	120.6	337.19	153.63	10,123	810	8.117
	22.2	124.7	332.00	158.85	10,402	832	8.092
	23.0	128.8	326.85	164.08	10,677	854	8.066
	23.8	132.8	321.74	169.17	10,940	875	8.041
	24.6	136.7	316.68	174.14	11,191	896	8.016
	25.4	140.7	311.65	179.24	11,447	916	7.991
	27.0	148.5	301.72	189.17	11,931	954	7.941
	28.6	156.2	291.95	198.98	12,395	991	7.892
	30.2	163.7	282.34	208.54	12,831	1,027	7.843
	31.8	171.1	272.89	217.96	13,247	1,060	7.795
	33.3	178.0	264.17	226.75	13,624	1,090	7.751
	34.9	185.1	255.03	235.80	13,996	1,120	7.704
	36.5	192.2	246.06	244.84	14,358	1,149	7.657
	38.1	199.1	237.24	253.63	14,696	1,176	7.612
	40.0	207.2	226.98	263.95	15,078	1,206	7.558
	41.8	214.6	217.47	273.38	15,410	1,233	7.507
	42.5	217.5	213.82	277.07	15,538	1,243	7.488
	45.0	227.5	201.06	289.81	15,958	1,277	7.420
	47.5	237.2	188.69	302.17	16,341	1,307	7.353
	50.0	246.6	176.71	314.14	16,689	1,335	7.288
	52.5	255.7	165.13	325.73	17,004	1,360	7.225
	55.0	264.5	153.94	336.94	17,289	1,383	7.163
	57.5	273.0	143.14	347.77	17,546	1,404	7.103
	60.0	281.1	132.73	358.09	17,770	1,422	7.044
	62.5	289.0	122.72	368.15	17,976	1,438	6.987
	65.0	296.6	113.10	377.83	18,159	1,453	6.932
254	2.6	16.1	486.17	20.51	1,621	128	8.890
	2.9	18.0	483.83	22.93	1,807	142	8.877
	3.2	19.8	481.49	25.22	1,983	156	8.867
	3.6	22.2	478.39	28.28	2,217	175	8.854
	4.0	24.7	475.29	31.46	2,458	193	8.839
	4.5	27.7	471.43	35.29	2,747	216	8.822
	5.1	31.3	466.83	39.87	3,089	243	8.802

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254	5.6	34.3	463.01	43.69	3,371	266	8.783
	5.9	36.1	460.72	45.99	3,541	279	8.774
	6.4	39.1	456.92	49.81	3,820	301	8.757
	6.7	40.9	454.65	52.10	3,986	314	8.746
	7.1	43.2	451.64	55.03	4,197	331	8.733
	7.5	45.6	448.63	58.09	4,416	348	8.718
	7.9	47.9	445.63	61.02	4,624	364	8.705
	8.3	50.3	442.64	64.08	4,841	381	8.691
	8.7	52.6	439.66	67.01	5,047	398	8.678
	9.1	55.0	436.69	70.06	5,260	414	8.664
	9.5	57.3	433.74	72.99	5,462	430	8.650
	9.9	59.6	430.79	75.92	5,664	446	8.637
	10.3	61.9	427.85	78.85	5,864	462	8.623
	10.7	64.2	424.92	81.78	6,063	477	8.610
	11.1	66.5	422.00	84.71	6,260	493	8.596
	11.5	68.8	419.10	87.64	6,457	508	8.583
	11.9	71.1	416.20	90.57	6,652	523	8.570
	12.3	73.3	413.31	93.38	6,837	538	8.556
	12.7	75.6	410.43	96.31	7,029	553	8.543
	13.1	77.8	407.57	99.11	7,211	568	8.529
	13.5	80.1	404.71	102.04	7,401	583	8.516
	14.3	84.5	399.02	107.64	7,758	611	8.489
	15.1	89.0	393.38	113.38	8,121	639	8.463
	15.9	93.4	387.77	118.98	8,469	667	8.436
	16.7	97.7	382.21	124.46	8,804	693	8.410
	17.5	102.1	376.68	130.06	9,143	720	8.384
	18.3	106.4	371.20	135.54	9,469	745	8.358
	19.1	110.6	365.76	140.89	9,782	771	8.332
	19.8	114.4	361.03	145.73	10,063	792	8.309
	20.6	118.6	355.66	151.08	10,368	816	8.284
	21.4	122.8	350.33	156.43	10,669	840	8.258
	22.2	126.9	345.04	161.66	10,957	863	8.232
	23.0	131.0	339.79	166.88	11,241	885	8.207
	23.8	135.1	334.59	172.10	11,522	907	8.182
	25.4	143.2	324.29	182.42	12,063	950	8.131
	27.0	151.2	314.16	192.61	12,582	990	8.082
	28.6	159.0	304.19	202.55	13,070	1,029	8.032
	29.4	162.8	299.26	207.39	13,301	1,048	8.008
	30.2	166.7	294.37	212.36	13,538	1,066	7.984
	31.8	174.3	284.72	222.04	13,984	1,101	7.935
	33.3	181.2	275.82	230.83	14,374	1,132	7.891

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254	34.9	188.6	266.48	240.25	14,782	1,164	7.843
	36.5	195.8	257.30	249.43	15,165	1,194	7.797
	38.0	202.4	248.85	257.83	15,502	1,221	7.754
	40.0	211.1	237.79	268.92	15,932	1,255	7.697
	42.5	221.7	224.32	282.42	16,429	1,294	7.627
	45.0	231.9	211.24	295.41	16,878	1,329	7.558
	48.0	243.9	196.07	310.70	17,376	1,368	7.478
	50.0	251.6	186.26	320.51	17,675	1,391	7.426
	53.0	262.7	172.03	334.65	18,075	1,423	7.349
	55.0	269.9	162.86	343.82	18,320	1,443	7.299
	60.0	287.1	141.03	365.73	18,852	1,484	7.179
	63.0	296.8	128.68	378.09	19,117	1,505	7.110
	65.0	303.0	120.76	385.99	19,273	1,517	7.066
	76.0	333.6	81.71	424.97	19,899	1,567	6.842
257	23.0	132.7	349.67	169.04	11,682	909	8.313
	40.0	214.1	246.06	272.74	16,599	1,292	7.801
	55.0	274.0	169.72	349.04	19,123	1,488	7.401
260	11.9	72.8	438.18	92.74	7,152	550	8.781
	21.8	128.1	367.79	163.18	11,670	897	8.456
	25.4	147.0	343.73	187.26	13,034	1,002	8.342
	34.9	193.7	284.13	246.75	16,004	1,231	8.053
	35.9	198.4	278.18	252.74	16,273	1,252	8.024
	36.3	200.3	275.82	255.16	16,381	1,260	8.012
	36.7	202.1	273.47	257.45	16,480	1,268	8.000
	42.5	228.0	240.53	290.45	17,831	1,371	7.835
	43.5	232.3	235.06	295.92	18,038	1,387	7.807
	45.0	238.6	226.98	303.95	18,332	1,410	7.766
	50.0	259.0	201.06	329.94	19,219	1,478	7.632
	58.0	288.9	162.86	368.03	20,319	1,563	7.430
	60.0	295.9	153.94	376.94	20,543	1,580	7.382
	63.0	306.1	141.03	389.94	20,851	1,604	7.312
	65.0	312.6	132.73	398.22	21,031	1,618	7.267
263	21.5	128.1	380.13	163.18	11,991	911	8.572
	27.0	157.1	343.07	200.13	14,115	1,074	8.398
267	2.9	18.9	535.84	24.08	2,100	157	9.338
	3.2	20.8	533.38	26.50	2,306	173	9.328
	3.6	23.4	530.11	29.81	2,586	194	9.313



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267	4.0	25.9	526.85	32.99	2,853	214	9.299
	4.5	29.1	522.79	37.07	3,194	240	9.282
	5.1	32.9	517.94	41.91	3,595	270	9.261
	5.6	36.1	513.91	45.99	3,930	294	9.244
	5.9	38.0	511.51	48.41	4,127	309	9.233
	6.4	41.1	507.51	52.36	4,448	333	9.216
	6.7	43.0	505.11	54.78	4,643	348	9.206
	7.1	45.5	501.93	57.96	4,898	367	9.192
	7.5	48.0	498.76	61.15	5,152	386	9.178
	7.9	50.5	495.60	64.33	5,403	405	9.164
	8.3	53.0	492.45	67.52	5,654	423	9.150
	8.7	55.4	489.30	70.57	5,892	442	9.137
	9.1	57.9	486.17	73.76	6,140	460	9.123
	9.5	60.3	483.05	76.82	6,376	478	9.110
	9.9	62.8	479.94	80.00	6,620	496	9.096
	10.3	65.2	476.84	83.06	6,853	513	9.083
	10.7	67.6	473.75	86.11	7,083	531	9.069
	11.1	70.1	470.67	89.30	7,323	548	9.055
	11.5	72.5	467.59	92.36	7,552	565	9.042
	11.9	74.9	464.53	95.41	7,778	582	9.028
	12.3	77.3	461.48	98.47	8,004	599	9.015
	12.7	79.6	458.44	101.40	8,217	616	9.001
	13.1	82.0	455.41	104.46	8,440	632	8.988
	13.5	84.4	452.39	107.52	8,661	649	8.975
	14.3	89.1	446.38	113.50	9,089	681	8.948
	15.1	93.8	440.41	119.49	9,512	713	8.922
	15.9	98.5	434.47	125.48	9,929	743	8.895
	16.7	103.1	428.58	131.34	10,331	774	8.868
	17.5	107.7	422.73	137.20	10,728	803	8.842
	18.3	112.2	416.92	142.93	11,110	833	8.816
	19.1	116.8	411.15	148.79	11,498	861	8.790
	19.8	120.7	406.14	153.76	11,820	885	8.767
	20.6	125.2	400.44	159.49	12,188	913	8.741
	21.4	129.6	394.79	165.10	12,543	940	8.716
	22.2	134.0	389.17	170.70	12,892	966	8.690
	23.0	138.4	383.60	176.31	13,238	992	8.665
	23.8	142.7	378.06	181.78	13,568	1,017	8.639
	24.6	147.1	372.57	187.39	13,905	1,041	8.614
	25.4	151.3	367.11	192.74	14,218	1,065	8.588
	27.0	159.8	356.33	203.57	14,843	1,112	8.538
	28.6	168.2	345.70	214.27	15,442	1,156	8.489

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267	29.4	172.3	340.45	219.49	15,726	1,178	8.464
	30.2	176.4	335.24	224.71	16,007	1,199	8.440
	31.8	184.5	324.93	235.03	16,549	1,239	8.391
	33.3	191.9	315.42	244.46	17,028	1,276	8.346
	34.9	199.8	305.42	254.52	17,526	1,313	8.298
	36.5	207.5	295.59	264.33	17,995	1,348	8.250
	38.1	215.1	285.92	274.01	18,443	1,381	8.204
	40.0	223.9	274.65	285.22	18,942	1,419	8.149
	42.5	235.3	260.16	299.75	19,561	1,465	8.078
	45.0	246.4	246.06	313.89	20,132	1,508	8.008
	47.5	257.1	232.35	327.52	20,649	1,547	7.940
	50.0	267.6	219.04	340.89	21,130	1,583	7.873
	52.5	277.7	206.12	353.76	21,565	1,615	7.807
	55.0	287.6	193.59	366.37	21,968	1,645	7.743
	57.5	297.1	181.46	378.47	22,328	1,672	7.680
	60.0	306.3	169.72	390.19	22,655	1,697	7.619
	65.0	323.8	147.41	412.48	23,217	1,739	7.502
	70.0	340.1	126.68	433.25	23,671	1,773	7.391
	90.0	392.9	59.45	500.51	24,668	1,848	7.020
270	20.6	126.7	411.15	161.40	12,635	936	8.847
	21.4	131.2	405.42	167.13	13,007	963	8.821
	22.2	135.7	399.73	172.87	13,375	991	8.796
	23.0	140.1	394.08	178.47	13,728	1,017	8.770
	23.8	144.5	388.47	184.08	14,078	1,043	8.745
	24.6	148.9	382.90	189.68	14,422	1,068	8.719
	25.4	153.2	377.37	195.16	14,753	1,093	8.694
	27.0	161.8	366.44	206.11	15,401	1,141	8.644
	28.6	170.3	355.66	216.94	16,024	1,187	8.594
	29.4	174.5	350.33	222.29	16,325	1,209	8.569
	30.2	178.6	345.04	227.52	16,614	1,231	8.545
	31.8	186.8	334.59	237.96	17,178	1,272	8.496
	33.3	194.4	324.93	247.64	17,686	1,310	8.450
	34.9	202.4	314.79	257.83	18,206	1,348	8.403
	36.5	210.2	304.80	267.77	18,695	1,385	8.355
	38.1	217.9	294.98	277.58	19,163	1,419	8.308
	40.0	226.9	283.53	289.04	19,691	1,459	8.253
	42.5	238.5	268.80	303.82	20,342	1,506	8.182
	45.0	249.7	254.47	318.09	20,934	1,551	8.112
	47.5	260.6	240.53	331.97	21,480	1,591	8.043
	50.0	271.3	226.98	345.61	21,989	1,629	7.976

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270	52.5	281.6	213.82	358.73	22,449	1,663	7.910
	55.0	291.6	201.06	371.46	22,868	1,694	7.846
	57.5	301.3	188.69	383.82	23,251	1,723	7.783
	60.0	310.7	176.71	395.80	23,600	1,748	7.721
	65.0	328.6	153.94	418.60	24,200	1,793	7.603
	70.0	345.3	132.73	439.87	24,688	1,829	7.491
273	2.9	19.3	560.74	24.59	2,243	164	9.550
	3.2	21.3	558.23	27.13	2,469	181	9.539
	3.6	23.9	554.88	30.45	2,763	203	9.525
	4.0	26.5	551.55	33.76	3,054	224	9.511
	4.5	29.8	547.39	37.96	3,422	251	9.494
	4.8	31.7	544.91	40.38	3,632	266	9.483
	5.0	33.0	543.25	42.04	3,776	277	9.477
	5.1	33.7	542.43	42.93	3,853	282	9.473
	5.4	35.6	539.95	45.35	4,061	298	9.462
	5.5	36.3	539.13	46.24	4,138	303	9.459
	5.6	36.9	538.31	47.01	4,204	308	9.456
	5.7	37.6	537.48	47.90	4,280	313	9.452
	5.9	38.9	535.84	49.55	4,421	324	9.445
	6.0	39.5	535.02	50.32	4,486	329	9.441
	6.3	41.4	532.56	52.74	4,692	344	9.432
	6.4	42.1	531.75	53.63	4,767	349	9.427
	6.5	42.7	530.93	54.39	4,832	354	9.425
	6.6	43.4	530.11	55.29	4,908	359	9.421
	6.7	44.0	529.30	56.05	4,972	364	9.418
	7.0	45.9	526.85	58.47	5,175	379	9.407
	7.1	46.6	526.04	59.36	5,250	384	9.404
	7.3	47.8	524.41	60.89	5,377	394	9.397
	7.5	49.1	522.79	62.55	5,516	404	9.390
	7.8	51.0	520.36	64.97	5,717	419	9.380
	7.9	51.6	519.55	65.73	5,779	424	9.376
	8.0	52.3	518.75	66.62	5,853	429	9.373
	8.3	54.2	516.33	69.04	6,053	443	9.363
	8.4	54.8	515.52	69.81	6,116	448	9.359
	8.7	56.7	513.11	72.23	6,314	463	9.349
	8.8	57.3	512.31	72.99	6,376	467	9.346
	8.9	58.0	511.51	73.89	6,449	472	9.342
	9.0	58.6	510.70	74.65	6,511	477	9.339
	9.1	59.2	509.90	75.41	6,573	482	9.336
	9.2	59.9	509.10	76.31	6,646	486	9.332

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273	9.3	60.5	508.30	77.07	6,707	491	9.328
	9.5	61.7	506.71	78.60	6,831	501	9.322
	9.6	62.4	505.91	79.49	6,903	505	9.318
	9.9	64.2	503.52	81.78	7,086	519	9.308
	10.0	64.9	502.73	82.68	7,159	524	9.305
	10.2	66.1	501.14	84.20	7,280	533	9.298
	10.3	66.7	500.34	84.97	7,341	538	9.294
	10.7	69.2	497.18	88.15	7,594	556	9.281
	11.1	71.7	494.02	91.34	7,846	575	9.268
	11.4	73.5	491.66	93.63	8,025	588	9.257
	11.5	74.2	490.87	94.52	8,095	593	9.254
	11.8	76.0	488.52	96.82	8,274	606	9.244
	11.9	76.6	487.74	97.58	8,333	611	9.241
	12.3	79.1	484.61	100.76	8,579	628	9.227
	12.4	79.7	483.83	101.53	8,638	633	9.223
	12.5	80.3	483.05	102.29	8,697	637	9.220
	12.6	80.9	482.27	103.06	8,756	642	9.217
	12.7	81.5	481.49	103.82	8,814	646	9.213
	13.0	83.4	479.16	106.24	9,000	659	9.204
	13.1	84.0	478.39	107.01	9,058	663	9.200
	13.5	86.4	475.29	110.06	9,289	681	9.186
	13.8	88.2	472.98	112.36	9,463	693	9.177
	13.9	88.8	472.20	113.12	9,520	698	9.173
	14.0	89.4	471.43	113.89	9,578	702	9.170
	14.2	90.6	469.90	115.41	9,691	710	9.163
	14.3	91.2	469.13	116.18	9,749	714	9.160
	14.7	93.6	466.06	119.24	9,977	731	9.147
	14.8	94.2	465.30	120.00	10,033	735	9.143
	15.0	95.4	463.77	121.53	10,146	744	9.137
	15.1	96.0	463.01	122.29	10,202	748	9.133
	15.5	98.4	459.96	125.35	10,427	764	9.120
	15.9	100.8	456.92	128.41	10,651	780	9.107
	16.3	103.2	453.90	131.46	10,872	796	9.094
	16.7	105.6	450.88	134.52	11,093	812	9.080
	17.5	110.3	444.88	140.51	11,519	844	9.054
	18.3	114.9	438.92	146.37	11,930	874	9.028
	18.7	117.3	435.95	149.43	12,145	890	9.015
	19.1	119.6	433.00	152.36	12,347	904	9.002
	19.8	123.6	427.85	157.45	12,695	930	8.979
	20.2	125.9	424.92	160.38	12,894	945	8.966
	20.6	128.2	422.00	163.31	13,091	959	8.953

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273	21.1	131.1	418.37	167.01	13,340	977	8.937
	21.4	132.8	416.20	169.17	13,483	988	8.927
	22.2	137.3	410.43	174.90	13,859	1,015	8.901
	23.0	141.8	404.71	180.64	14,232	1,043	8.876
	23.8	146.3	399.02	186.37	14,599	1,069	8.850
	24.5	150.1	394.08	191.21	14,903	1,092	8.828
	24.6	150.7	393.38	191.97	14,952	1,095	8.825
	25.4	155.1	387.77	197.58	15,300	1,121	8.799
	26.2	159.5	382.21	203.18	15,644	1,146	8.774
	27.0	163.8	376.68	208.66	15,974	1,170	8.749
	28.6	172.4	365.76	219.62	16,622	1,218	8.699
	29.4	176.6	360.35	224.97	16,930	1,240	8.674
	30.2	180.8	354.99	230.32	17,235	1,263	8.650
	30.5	182.4	352.99	232.36	17,350	1,271	8.641
	31.8	189.2	344.38	241.02	17,832	1,306	8.601
	33.3	196.9	334.59	250.83	18,362	1,345	8.555
	34.0	200.4	330.06	255.29	18,597	1,362	8.535
	34.9	204.9	324.29	261.02	18,894	1,384	8.507
	35.4	207.4	321.11	264.20	19,058	1,396	8.493
	36.0	210.4	317.31	268.03	19,253	1,411	8.475
	36.5	212.9	314.16	271.21	19,413	1,422	8.460
	38.1	220.7	304.19	281.15	19,902	1,458	8.413
	40.0	229.8	292.55	292.74	20,451	1,499	8.358
	42.5	241.6	277.59	307.77	21,135	1,548	8.286
	45.0	253.0	263.02	322.29	21,758	1,594	8.216
	47.5	264.2	248.85	336.56	22,342	1,637	8.147
	50.0	275.0	235.06	350.32	22,871	1,675	8.079
	52.5	285.5	221.67	363.69	23,356	1,711	8.013
	55.0	295.7	208.67	376.69	23,802	1,744	7.949
	57.5	305.6	196.07	389.30	24,208	1,773	7.885
	60.0	315.2	183.85	401.53	24,578	1,800	7.823
	63.0	326.3	169.72	415.67	24,976	1,830	7.751
	65.0	333.4	160.61	424.71	25,211	1,847	7.704
	70.0	350.4	138.93	446.37	25,727	1,885	7.591
	75.0	366.2	118.82	466.50	26,141	1,915	7.485
	80.0	380.8	100.29	485.10	26,468	1,939	7.386
279	6.4	43.0	556.55	54.78	5,091	365	9.640
	6.7	45.0	554.05	57.32	5,316	381	9.630
	7.1	47.6	550.71	60.64	5,608	402	9.616
	7.5	50.2	547.39	63.95	5,897	423	9.602

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279	7.9	52.8	544.08	67.26	6,184	443	9.588
	8.3	55.4	540.78	70.57	6,470	464	9.575
	8.7	58.0	537.48	73.89	6,755	484	9.561
	9.1	60.6	534.20	77.20	7,038	504	9.548
	9.5	63.1	530.93	80.38	7,307	524	9.534
	9.9	65.7	527.67	83.69	7,586	544	9.520
	10.3	68.3	524.41	87.01	7,864	563	9.506
	10.7	70.8	521.17	90.19	8,128	583	9.493
	11.1	73.3	517.94	93.38	8,392	602	9.479
	11.5	75.9	514.72	96.69	8,664	621	9.466
	11.9	78.4	511.51	99.87	8,924	640	9.452
	12.3	80.9	508.30	103.06	9,183	658	9.439
	12.7	83.4	505.11	106.24	9,439	677	9.425
	13.1	85.9	501.93	109.43	9,695	695	9.412
	13.5	88.4	498.76	112.61	9,948	713	9.398
	14.3	93.4	492.45	118.98	10,451	749	9.372
	15.1	98.3	486.17	125.22	10,937	784	9.345
	15.9	103.2	479.94	131.46	11,416	818	9.318
	16.7	108.0	473.75	137.58	11,880	852	9.292
	17.5	112.9	467.59	143.82	12,348	885	9.265
	18.3	117.7	461.48	149.94	12,801	917	9.239
	19.1	122.4	455.41	155.92	13,236	949	9.213
	19.8	126.6	450.13	161.27	13,623	976	9.190
	20.6	131.3	444.13	167.26	14,049	1,007	9.164
	21.4	136.0	438.18	173.25	14,470	1,037	9.138
	22.2	140.6	432.26	179.11	14,875	1,066	9.113
	23.0	145.2	426.38	184.97	15,275	1,095	9.087
	23.8	149.8	420.55	190.83	15,670	1,123	9.061
	24.6	154.3	414.75	196.56	16,050	1,151	9.036
	25.4	158.9	409.00	202.42	16,436	1,178	9.010
	26.5	165.0	401.15	210.19	16,936	1,214	8.976
	27.0	167.8	397.61	213.76	17,163	1,230	8.960
	27.8	172.2	391.97	219.36	17,514	1,256	8.935
	28.6	176.6	386.38	224.97	17,862	1,281	8.910
	29.4	181.0	380.82	230.57	18,205	1,305	8.885
	30.2	185.3	375.31	236.05	18,534	1,329	8.860
	31.8	193.9	364.40	247.01	19,180	1,375	8.811
	33.3	201.8	354.32	257.07	19,755	1,416	8.766
	34.9	210.1	343.73	267.64	20,342	1,458	8.718
	36.5	218.3	333.29	278.09	20,905	1,498	8.670
	38.1	226.4	323.02	288.41	21,445	1,537	8.622

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279	40.0	235.8	311.03	300.38	22,048	1,580	8.567
	42.5	247.9	295.59	315.80	22,792	1,634	8.495
	45.0	259.7	280.55	330.83	23,481	1,683	8.424
	50.0	282.4	251.65	359.75	24,706	1,771	8.287
	57.0	312.1	213.82	397.58	26,108	1,871	8.103
	60.0	324.1	198.56	412.87	26,610	1,907	8.028
	63.0	335.6	183.85	427.52	27,054	1,939	7.954
	65.0	343.0	174.37	436.94	27,320	1,959	7.907
	70.0	360.8	151.75	459.62	27,911	2,001	7.792
	75.0	377.3	130.70	480.64	28,382	2,035	7.684
	80.0	392.6	111.22	500.13	28,758	2,062	7.582
284	30.0	187.9	394.08	239.36	19,572	1,379	9.042
	35.0	214.9	359.68	273.76	21,636	1,524	8.890
	37.0	225.4	346.36	287.13	22,388	1,577	8.830
	38.0	230.5	339.79	293.63	22,742	1,602	8.800
	40.0	240.7	326.85	306.62	23,432	1,650	8.741
	42.0	250.7	314.16	319.36	24,083	1,696	8.683
	50.0	288.5	265.90	367.52	26,303	1,853	8.459
	60.0	331.5	211.24	422.29	28,386	1,999	8.198
287	63.0	343.4	196.07	437.45	28,877	2,033	8.124
	12.3	83.3	540.78	106.11	10,029	699	9.721
	12.7	85.9	537.48	109.43	10,314	719	9.708
	13.1	88.5	534.20	112.74	10,597	738	9.695
	13.5	91.1	530.93	116.05	10,877	758	9.681
	13.9	93.6	527.67	119.24	11,145	777	9.667
	14.3	96.2	524.41	122.55	11,423	796	9.654
	14.7	98.7	521.17	125.73	11,687	815	9.641
	15.1	101.3	517.94	129.04	11,962	833	9.628
	15.9	106.3	511.51	135.41	12,483	870	9.601
	16.3	108.8	508.30	138.60	12,742	888	9.588
	16.7	111.3	505.11	141.78	12,998	906	9.574
	21.0	137.8	471.43	175.54	15,622	1,088	9.433
	21.4	140.2	468.36	178.60	15,851	1,104	9.420
	21.8	142.6	465.30	181.66	16,078	1,120	9.407
	22.2	145.0	462.24	184.71	16,303	1,136	9.394
	25.4	163.9	438.18	208.79	18,029	1,256	9.292
	29.4	186.8	409.00	237.96	19,995	1,393	9.166
	35.0	217.5	369.84	277.07	22,418	1,562	8.995
	37.5	230.7	352.99	293.89	23,385	1,630	8.920

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287	40.0	243.7	336.53	310.45	24,296	1,693	8.846
	41.8	252.8	324.93	322.04	24,906	1,735	8.794
	47.0	278.2	292.55	354.39	26,495	1,846	8.646
	60.0	335.9	219.04	427.90	29,487	2,055	8.301
	65.0	355.9	193.59	453.38	30,325	2,113	8.178
	75.0	392.1	147.41	499.49	31,573	2,200	7.950
	77.0	398.8	138.93	508.03	31,770	2,214	7.907
289	25.4	165.1	445.63	210.32	18,437	1,276	9.362
	38.6	238.4	352.32	303.69	24,367	1,686	8.957
	40.0	245.6	343.07	312.87	24,874	1,722	8.916
	43.0	260.9	323.65	332.36	25,910	1,793	8.829
	47.5	282.9	295.59	360.38	27,289	1,889	8.701
	63.0	351.1	208.67	447.26	30,774	2,130	8.294
292	2.9	20.7	643.32	26.37	2,755	188	10.221
	3.2	22.8	640.63	29.04	3,028	207	10.211
	3.6	25.6	637.04	32.61	3,391	232	10.197
	4.0	28.4	633.47	36.18	3,752	257	10.183
	4.5	31.9	629.02	40.64	4,200	288	10.165
	5.1	36.1	623.69	45.99	4,733	324	10.144
	5.6	39.6	619.28	50.45	5,175	354	10.128
	5.9	41.6	616.63	52.99	5,424	372	10.117
	6.4	45.1	612.24	57.45	5,861	401	10.100
	6.7	47.1	609.61	60.00	6,108	419	10.089
	7.1	49.9	606.11	63.57	6,454	442	10.076
	7.5	52.6	602.63	67.01	6,784	465	10.061
	7.9	55.4	599.15	70.57	7,125	488	10.048
	8.3	58.1	595.69	74.01	7,452	510	10.034
	8.7	60.8	592.23	77.45	7,777	533	10.020
	9.1	63.5	588.78	80.89	8,101	555	10.007
	9.5	66.2	585.35	84.33	8,422	577	9.993
	9.9	68.9	581.92	87.77	8,742	599	9.980
	10.3	71.6	578.51	91.21	9,060	620	9.966
	10.7	74.2	575.10	94.52	9,363	642	9.952
	11.1	76.9	571.71	97.96	9,677	663	9.939
	11.5	79.6	568.32	101.40	9,989	684	9.925
	11.9	82.2	564.95	104.71	10,287	705	9.911
	12.3	84.8	561.58	108.03	10,585	725	9.898
	12.7	87.5	558.23	111.46	10,891	746	9.884
	13.1	90.1	554.88	114.78	11,185	766	9.871

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292	13.5	92.7	551.55	118.09	11,476	786	9.857
	14.3	97.9	544.91	124.71	12,054	826	9.831
	15.1	103.1	538.31	131.34	12,625	865	9.804
	15.9	108.3	531.75	137.96	13,190	903	9.777
	16.7	113.4	525.23	144.46	13,736	941	9.751
	17.5	118.5	518.75	150.96	14,276	978	9.724
	18.3	123.5	512.31	157.32	14,797	1,014	9.698
	19.1	128.5	505.91	163.69	15,313	1,049	9.672
	19.8	132.9	500.34	169.30	15,763	1,080	9.649
	20.6	137.9	494.02	175.67	16,268	1,114	9.623
	21.4	142.8	487.74	181.91	16,754	1,148	9.596
	22.2	147.7	481.49	188.15	17,236	1,181	9.571
	23.0	152.6	475.29	194.39	17,711	1,213	9.545
	24.6	162.2	463.01	206.62	18,624	1,276	9.493
	25.4	167.0	456.92	212.74	19,072	1,306	9.468
	27.0	176.5	444.88	224.84	19,942	1,366	9.417
	28.6	185.8	433.00	236.69	20,769	1,422	9.367
	29.4	190.4	427.12	242.55	21,169	1,450	9.342
	30.2	195.0	421.28	248.41	21,566	1,477	9.317
	31.8	204.1	409.71	260.00	22,332	1,529	9.267
	32.4	207.4	405.42	264.20	22,603	1,548	9.249
	33.3	212.5	399.02	270.70	23,021	1,576	9.221
	34.9	221.3	387.77	281.91	23,722	1,625	9.173
	36.5	230.0	376.68	292.99	24,396	1,671	9.125
	38.1	238.6	365.76	303.95	25,044	1,715	9.077
	40.0	248.6	352.99	316.69	25,772	1,765	9.021
	43.5	266.6	330.06	339.62	27,019	1,850	8.919
	45.0	274.1	320.47	349.17	27,512	1,884	8.876
	47.5	286.4	304.80	364.84	28,292	1,938	8.806
	50.0	298.4	289.53	380.13	29,015	1,987	8.736
	52.5	310.1	274.65	395.03	29,685	2,033	8.668
	55.0	321.5	260.16	409.55	30,304	2,075	8.601
	60.0	343.3	232.35	437.32	31,391	2,150	8.472
	63.0	355.8	216.42	453.25	31,960	2,189	8.397
	65.0	363.9	206.12	463.57	32,307	2,213	8.348
	70.0	383.2	181.46	488.15	33,062	2,265	8.229
298	3.6	26.1	664.17	33.25	3,603	242	10.409
	4.0	29.0	660.52	36.94	3,992	268	10.395
	4.5	32.6	655.97	41.53	4,473	300	10.378
	5.1	36.8	650.54	46.88	5,029	338	10.357

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
298	5.6	40.4	646.02	51.46	5,502	369	10.340
	5.9	42.5	643.32	54.14	5,777	388	10.329
	6.4	46.0	638.83	58.60	6,231	418	10.311
	6.7	48.1	636.15	61.27	6,502	437	10.301
	7.1	50.9	632.58	64.84	6,863	461	10.288
	7.5	53.7	629.02	68.41	7,221	485	10.273
	7.9	56.5	625.47	71.97	7,577	509	10.260
	8.3	59.3	621.92	75.54	7,931	532	10.246
	8.5	60.7	620.16	77.32	8,107	544	10.239
	8.7	62.1	618.39	79.11	8,284	556	10.233
	9.1	64.8	614.87	82.55	8,621	579	10.219
	9.5	67.6	611.36	86.11	8,969	602	10.205
	9.9	70.3	607.86	89.55	9,302	625	10.191
	10.3	73.1	604.37	93.12	9,647	647	10.178
	10.7	75.8	600.89	96.56	9,977	670	10.164
	11.1	78.5	597.42	100.00	10,304	692	10.150
	11.4	80.6	594.82	102.68	10,559	708	10.140
	11.5	81.3	593.96	103.57	10,644	714	10.137
	11.9	84.0	590.51	107.01	10,968	736	10.123
	12.3	86.7	587.07	110.45	11,290	757	10.110
	12.4	87.3	586.21	111.21	11,360	763	10.106
	12.7	89.4	583.63	113.89	11,611	779	10.096
	13.1	92.0	580.21	117.20	11,916	800	10.083
	13.5	94.7	576.80	120.64	12,233	821	10.069
	13.6	95.4	575.95	121.53	12,315	826	10.066
	14.3	100.1	570.01	127.52	12,862	863	10.043
	14.8	103.4	565.79	131.72	13,241	888	10.026
	15.1	105.4	563.26	134.27	13,471	904	10.016
	15.9	110.6	556.55	140.89	14,060	944	9.989
	16.7	115.9	549.88	147.64	14,655	983	9.963
	17.5	121.1	543.25	154.27	15,232	1,022	9.936
	18.3	126.2	536.66	160.76	15,788	1,060	9.910
	19.1	131.4	530.11	167.39	16,352	1,097	9.883
	20.6	140.9	517.94	179.49	17,360	1,165	9.834
	21.4	146.0	511.51	185.99	17,894	1,201	9.808
	22.2	151.0	505.11	192.36	18,408	1,235	9.782
	23.0	156.0	498.76	198.73	18,918	1,269	9.756
	23.8	160.9	492.45	204.97	19,409	1,303	9.730
	24.6	165.9	486.17	211.34	19,906	1,336	9.705
	25.4	170.8	479.94	217.58	20,386	1,368	9.679
	27.0	180.5	467.59	229.94	21,318	1,430	9.628

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298	28.6	190.0	455.41	242.04	22,205	1,490	9.578
	29.4	194.8	449.38	248.15	22,647	1,520	9.553
	30.2	199.5	443.39	254.14	23,072	1,548	9.528
	31.8	208.8	431.52	265.99	23,897	1,604	9.478
	33.3	217.4	420.55	276.94	24,639	1,653	9.432
	34.9	226.5	409.00	288.54	25,406	1,705	9.383
	35.0	227.0	408.28	289.17	25,445	1,708	9.380
	36.5	235.4	397.61	299.87	26,132	1,754	9.335
	38.1	244.2	386.38	311.08	26,830	1,801	9.286
	40.0	254.5	373.25	324.20	27,623	1,854	9.230
	41.5	262.5	363.05	334.39	28,220	1,894	9.186
	42.5	267.8	356.33	341.15	28,608	1,920	9.157
	45.0	280.8	339.79	357.71	29,526	1,981	9.085
	47.5	293.4	323.65	373.76	30,371	2,039	9.014
	50.0	305.8	307.91	389.55	31,166	2,092	8.944
	55.0	329.6	277.59	419.87	32,579	2,187	8.808
	60.0	352.2	248.85	448.66	33,786	2,267	8.677
	65.0	373.5	221.67	475.80	34,801	2,336	8.552
	67.0	381.7	211.24	486.24	35,161	2,360	8.503
	70.0	393.6	196.07	501.40	35,652	2,393	8.432
305	75.0	412.5	172.03	525.48	36,359	2,440	8.318
	80.0	430.1	149.57	547.90	36,931	2,479	8.210
	87.0	452.7	120.76	576.69	37,550	2,520	8.069
	2.6	19.4	705.92	24.71	2,825	185	10.692
	2.9	21.6	703.09	27.52	3,140	206	10.681
	3.2	23.8	700.28	30.32	3,452	227	10.670
	3.6	26.8	696.53	34.14	3,877	254	10.656
	4.0	29.7	692.79	37.83	4,285	281	10.642
	4.5	33.3	688.13	42.42	4,789	315	10.625
	5.1	37.7	682.57	48.03	5,401	354	10.604
	5.6	41.3	677.94	52.61	5,897	387	10.587
	5.9	43.5	675.18	55.41	6,199	407	10.577
	6.4	47.1	670.58	60.00	6,690	439	10.559
	6.7	49.3	667.83	62.80	6,989	458	10.549
	7.0	51.4	665.08	65.48	7,273	477	10.539
	7.1	52.2	664.17	66.50	7,381	484	10.535
	7.5	55.0	660.52	70.06	7,756	509	10.521
	7.9	57.9	656.88	73.76	8,144	534	10.507
	8.3	60.7	653.25	77.32	8,515	559	10.494
	8.7	63.6	649.63	81.02	8,899	583	10.480

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305	9.1	66.4	646.02	84.59	9,267	608	10.466
	9.5	69.2	642.42	88.15	9,632	632	10.453
	9.9	72.0	638.83	91.72	9,995	656	10.439
	10.3	74.9	635.26	95.41	10,370	680	10.425
	10.7	77.7	631.69	98.98	10,730	703	10.411
	11.1	80.5	628.13	102.55	11,088	727	10.398
	11.5	83.2	624.58	105.99	11,430	750	10.384
	11.9	86.0	621.04	109.55	11,783	773	10.371
	12.3	88.8	617.51	113.12	12,136	796	10.357
	12.7	91.6	613.99	116.69	12,486	818	10.344
	13.1	94.3	610.49	120.13	12,820	841	10.330
	13.5	97.1	606.99	123.69	13,166	863	10.317
	14.3	102.5	600.02	130.57	13,826	907	10.290
	15.1	108.0	593.09	137.58	14,492	950	10.263
	15.9	113.4	586.21	144.46	15,138	992	10.236
	16.7	118.7	579.36	151.21	15,763	1,034	10.210
	17.5	124.1	572.55	158.09	16,394	1,075	10.183
	18.3	129.4	565.79	164.84	17,006	1,115	10.157
	19.1	134.7	559.06	171.59	17,610	1,155	10.130
	19.8	139.3	553.21	177.45	18,129	1,188	10.107
	20.6	144.5	546.56	184.08	18,709	1,227	10.081
	21.4	149.7	539.95	190.70	19,281	1,264	10.055
	22.2	154.8	533.38	197.20	19,836	1,301	10.029
	23.0	160.0	526.85	203.82	20,396	1,337	10.003
	23.8	165.1	520.36	210.32	20,937	1,373	9.977
	24.6	170.1	513.91	216.69	21,460	1,407	9.951
	25.4	175.1	507.51	223.06	21,977	1,441	9.925
	27.0	185.1	494.81	235.80	22,994	1,508	9.874
	28.6	195.0	482.27	248.41	23,976	1,572	9.824
	29.4	199.8	476.06	254.52	24,440	1,603	9.799
	30.2	204.7	469.90	260.76	24,911	1,633	9.774
	31.8	214.3	457.68	272.99	25,814	1,692	9.724
	33.3	223.1	446.38	284.20	26,619	1,746	9.677
	34.9	232.5	434.47	296.18	27,460	1,800	9.628
	36.5	241.7	422.73	307.90	28,259	1,853	9.580
	37.5	247.4	415.48	315.16	28,744	1,885	9.550
	38.1	250.8	411.15	319.49	29,029	1,903	9.532
	38.5	253.0	408.28	322.29	29,209	1,916	9.519
	40.0	261.4	397.61	332.99	29,896	1,961	9.475
	41.0	266.9	390.57	340.00	30,335	1,989	9.445
	42.5	275.1	380.13	350.45	30,977	2,031	9.401

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305	45.0	288.5	363.05	367.52	31,986	2,098	9.329
	47.5	301.6	346.36	384.20	32,927	2,159	9.257
	50.0	314.4	330.06	400.51	33,806	2,217	9.187
	52.5	326.9	314.16	416.43	34,622	2,270	9.118
	55.0	339.1	298.65	431.97	35,381	2,320	9.050
	57.5	351.0	283.53	447.13	36,085	2,366	8.983
	60.0	362.5	268.80	461.78	36,726	2,408	8.918
	63.0	376.0	251.65	478.98	37,440	2,455	8.841
	65.0	384.7	240.53	490.06	37,872	2,484	8.790
	70.0	405.7	213.82	516.82	38,842	2,547	8.669
	72.0	413.7	203.58	527.01	39,179	2,569	8.622
	75.0	425.4	188.69	541.91	39,644	2,600	8.553
310	3.2	24.2	723.92	30.83	3,628	234	10.847
	3.6	27.2	720.11	34.65	4,067	262	10.833
	4.0	30.2	716.31	38.47	4,503	290	10.819
	4.5	33.9	711.58	43.18	5,039	325	10.802
	5.1	38.3	705.92	48.79	5,671	366	10.781
	5.6	42.0	701.21	53.50	6,199	400	10.764
	5.9	44.2	698.40	56.31	6,512	421	10.753
	6.4	47.9	693.72	61.02	7,034	454	10.736
	6.7	50.1	690.93	63.82	7,342	474	10.725
	7.1	53.0	687.20	67.52	7,748	500	10.712
	7.5	56.0	683.49	71.34	8,165	526	10.698
	7.9	58.9	679.79	75.03	8,565	552	10.684
	8.3	61.8	676.10	78.73	8,965	578	10.670
	8.7	64.6	672.42	82.29	9,346	603	10.657
	9.1	67.5	668.74	85.99	9,741	629	10.643
	9.5	70.4	665.08	89.68	10,133	654	10.629
	9.9	73.3	661.43	93.38	10,524	679	10.616
	10.3	76.1	657.79	96.94	10,897	703	10.602
	10.7	79.0	654.16	100.64	11,284	728	10.588
	11.1	81.8	650.54	104.20	11,653	752	10.575
	11.5	84.7	646.92	107.90	12,036	776	10.561
	11.9	87.5	643.32	111.46	12,401	800	10.547
	12.3	90.3	639.73	115.03	12,765	824	10.534
	12.7	93.1	636.15	118.60	13,127	847	10.520
	13.1	95.9	632.58	122.17	13,488	870	10.507
	13.5	98.7	629.02	125.73	13,845	893	10.493
	14.3	104.3	621.92	132.87	14,556	939	10.466
	15.1	109.8	614.87	139.87	15,245	984	10.440

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310	15.9	115.3	607.86	146.88	15,927	1,028	10.413
	16.7	120.8	600.89	153.89	16,602	1,071	10.386
	17.5	126.2	593.96	160.76	17,254	1,114	10.359
	18.3	131.6	587.07	167.64	17,901	1,155	10.333
	19.1	137.0	580.21	174.52	18,540	1,196	10.306
	19.8	141.7	574.25	180.51	19,091	1,232	10.284
	20.6	147.0	567.48	187.26	19,704	1,271	10.257
	21.4	152.3	560.74	194.01	20,310	1,310	10.231
	22.2	157.6	554.05	200.76	20,910	1,349	10.205
	23.0	162.8	547.39	207.39	21,490	1,386	10.179
	23.8	168.0	540.78	214.01	22,064	1,423	10.153
	24.6	173.1	534.20	220.51	22,618	1,460	10.127
	25.4	178.3	527.67	227.13	23,179	1,495	10.102
	27.0	188.4	514.72	240.00	24,245	1,565	10.050
	28.6	198.5	501.93	252.87	25,288	1,631	10.000
	29.4	203.5	495.60	259.24	25,795	1,664	9.975
	30.2	208.4	489.30	265.48	26,283	1,696	9.949
	31.8	218.2	476.84	277.96	27,242	1,757	9.899
	33.3	227.2	465.30	289.43	28,101	1,813	9.853
	34.9	236.8	453.14	301.66	28,996	1,871	9.804
	36.5	246.2	441.15	313.63	29,848	1,926	9.755
	38.1	255.5	429.32	325.48	30,669	1,978	9.707
	40.0	266.3	415.48	339.24	31,592	2,038	9.650
	42.5	280.4	397.61	357.20	32,756	2,113	9.576
	45.0	294.1	380.13	374.65	33,836	2,183	9.503
	47.5	307.5	363.05	391.72	34,845	2,248	9.431
	50.0	320.6	346.36	408.41	35,787	2,309	9.360
	53.0	335.9	326.85	427.90	36,830	2,376	9.277
	60.0	369.9	283.53	471.21	38,934	2,512	9.089
	65.0	392.7	254.47	500.25	40,176	2,592	8.961
	70.0	414.3	226.98	527.77	41,232	2,660	8.838
315	31.5	220.2	498.76	280.51	28,529	1,812	10.084
	33.3	231.3	484.61	294.65	29,636	1,882	10.028
	55.0	352.7	330.06	449.30	39,665	2,518	9.395
	63.0	391.5	280.55	498.73	42,064	2,671	9.183
318	3.6	27.9	758.67	35.54	4,392	276	11.116
	4.0	31.0	754.77	39.49	4,868	306	11.102
	4.5	34.8	749.91	44.33	5,447	343	11.084
	5.1	39.4	744.09	50.19	6,144	386	11.064

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318	5.6	43.1	739.27	54.90	6,700	422	11.047
	5.9	45.4	736.38	57.83	7,044	443	11.036
	6.4	49.2	731.57	62.68	7,611	478	11.019
	6.7	51.4	728.70	65.48	7,936	499	11.008
	7.1	54.4	724.88	69.30	8,377	527	10.994
	7.5	57.4	721.07	73.12	8,817	555	10.981
	7.9	60.4	717.26	76.94	9,254	582	10.967
	8.3	63.4	713.47	80.76	9,689	609	10.953
	8.7	66.4	709.69	84.59	10,124	636	10.939
	9.5	72.3	702.15	92.10	10,967	690	10.912
	9.9	75.2	698.40	95.80	11,379	716	10.898
	10.3	78.2	694.66	99.62	11,803	742	10.884
	10.7	81.1	690.93	103.31	12,210	768	10.871
	11.1	84.0	687.20	107.01	12,615	793	10.857
	11.5	86.9	683.49	110.70	13,018	819	10.844
	11.9	89.8	679.79	114.39	13,418	844	10.830
	12.3	92.7	676.10	118.09	13,817	869	10.816
	12.7	95.6	672.42	121.78	14,213	894	10.803
	13.1	98.5	668.74	125.48	14,608	919	10.789
	13.5	101.4	665.08	129.17	15,000	943	10.776
	14.3	107.1	657.79	136.43	15,764	992	10.749
	15.1	112.8	650.54	143.69	16,520	1,039	10.722
	15.9	118.5	643.32	150.96	17,269	1,086	10.695
	16.7	124.1	636.15	158.09	17,995	1,132	10.669
	17.5	129.7	629.02	165.22	18,713	1,177	10.642
	18.3	135.3	621.92	172.36	19,424	1,221	10.615
	19.1	140.8	614.87	179.36	20,112	1,265	10.589
	19.8	145.6	608.73	185.48	20,708	1,302	10.566
	20.6	151.1	601.76	192.48	21,382	1,345	10.539
	21.4	156.5	594.82	199.36	22,037	1,386	10.513
	22.2	161.9	587.92	206.24	22,684	1,427	10.487
	23.0	167.3	581.07	213.12	23,324	1,467	10.461
	23.8	172.7	574.25	220.00	23,958	1,507	10.435
	24.6	178.0	567.48	226.75	24,571	1,545	10.409
	25.4	183.3	560.74	233.50	25,177	1,583	10.383
	26.0	187.2	555.72	238.47	25,618	1,611	10.364
	27.0	193.8	547.39	246.88	26,358	1,657	10.332
	28.6	204.1	534.20	260.00	27,485	1,729	10.281
	29.4	209.3	527.67	266.62	28,047	1,764	10.256
	30.2	214.4	521.17	273.12	28,589	1,798	10.231
	31.8	224.5	508.30	285.99	29,643	1,864	10.180

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318	33.3	233.8	496.39	297.83	30,588	1,924	10.134
	34.9	243.7	483.83	310.45	31,574	1,985	10.084
	36.5	253.4	471.43	322.80	32,512	2,045	10.035
	38.1	263.0	459.20	335.03	33,417	2,102	9.987
	40.0	274.2	444.88	349.30	34,443	2,166	9.930
	41.0	280.1	437.43	356.82	34,973	2,199	9.900
	42.5	288.8	426.38	367.90	35,735	2,247	9.855
	45.0	303.0	408.28	385.99	36,936	2,323	9.782
	47.5	316.9	390.57	403.69	38,061	2,394	9.709
	50.0	330.5	373.25	421.02	39,115	2,460	9.638
	52.5	343.8	356.33	437.96	40,099	2,522	9.568
	55.0	356.7	339.79	454.39	41,005	2,579	9.499
	57.5	369.4	323.65	470.57	41,861	2,633	9.431
	60.0	381.8	307.91	486.37	42,657	2,683	9.365
	63.0	396.2	289.53	504.71	43,527	2,738	9.286
	70.0	428.1	248.85	545.35	45,267	2,847	9.110
	75.0	449.5	221.67	572.61	46,291	2,911	8.991
	85.0	488.4	172.03	622.17	47,840	3,009	8.768
323	2.6	20.5	793.23	26.11	3,351	208	11.328
	3.2	25.2	787.25	32.10	4,104	255	11.307
	3.6	28.4	783.27	36.18	4,614	285	11.292
	4.0	31.5	779.31	40.13	5,105	316	11.278
	4.5	35.3	774.37	44.97	5,703	354	11.261
	4.8	37.7	771.41	48.03	6,080	376	11.251
	5.0	39.2	769.45	49.94	6,314	391	11.244
	5.1	40.0	768.46	50.96	6,439	399	11.240
	5.6	43.8	763.56	55.80	7,029	436	11.223
	5.9	46.1	760.62	58.73	7,384	458	11.212
	6.0	46.9	759.64	59.75	7,508	465	11.209
	6.3	49.2	756.72	62.68	7,862	487	11.199
	6.4	50.0	755.74	63.69	7,983	494	11.195
	6.5	50.7	754.77	64.59	8,091	501	11.192
	6.7	52.3	752.82	66.62	8,335	516	11.185
	7.1	55.3	748.93	70.45	8,792	545	11.171
	7.5	58.4	745.06	74.39	9,261	573	11.157
	7.9	61.4	741.19	78.22	9,714	601	11.143
	8.0	62.1	740.23	79.11	9,818	608	11.140
	8.3	64.4	737.34	82.04	10,163	629	11.130
	8.4	65.2	736.38	83.06	10,283	636	11.126
	8.7	67.4	733.49	85.86	10,610	657	11.116

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
323	8.8	68.2	732.53	86.88	10,730	664	11.113
	9.0	69.7	730.62	88.79	10,952	678	11.106
	9.1	70.4	729.66	89.68	11,055	685	11.102
	9.2	71.2	728.70	90.70	11,174	692	11.099
	9.5	73.4	725.83	93.50	11,497	712	11.088
	9.7	74.9	723.92	95.41	11,718	726	11.082
	9.9	76.4	722.02	97.32	11,937	740	11.075
	10.0	77.2	721.07	98.34	12,055	746	11.071
	10.2	78.7	719.16	100.25	12,274	760	11.064
	10.3	79.4	718.21	101.15	12,377	767	11.061
	10.5	80.9	716.31	103.06	12,595	780	11.054
	10.7	82.4	714.42	104.97	12,812	793	11.047
	11.0	84.6	711.58	107.77	13,130	813	11.037
	11.1	85.4	710.63	108.79	13,246	820	11.034
	11.5	88.3	706.86	112.48	13,661	846	11.020
	11.9	91.3	703.09	116.31	14,092	873	11.007
	12.0	92.0	702.15	117.20	14,191	879	11.003
	12.3	94.2	699.34	120.00	14,503	898	10.993
	12.5	95.7	697.46	121.91	14,716	911	10.986
	12.7	97.2	695.59	123.82	14,928	924	10.980
	13.0	99.4	692.79	126.62	15,237	943	10.969
	13.1	100.1	691.86	127.52	15,336	950	10.966
	13.5	103.0	688.13	131.21	15,741	975	10.952
	13.9	106.0	684.42	135.03	16,159	1,000	10.939
	14.3	108.9	680.71	138.73	16,561	1,025	10.925
	14.7	111.8	677.02	142.42	16,960	1,050	10.912
	15.1	114.7	673.34	146.11	17,356	1,074	10.898
	15.5	117.5	669.66	149.68	17,736	1,099	10.885
	15.9	120.4	666.00	153.38	18,130	1,123	10.872
	16.0	121.1	665.08	154.27	18,224	1,129	10.868
	16.3	123.3	662.34	157.07	18,521	1,147	10.858
	17.0	128.3	655.97	163.44	19,189	1,188	10.835
	17.5	131.8	651.44	167.90	19,652	1,217	10.818
	18.3	137.5	644.22	175.16	20,401	1,263	10.792
	18.7	140.3	640.63	178.73	20,766	1,286	10.778
	19.1	143.2	637.04	182.42	21,142	1,309	10.765
	19.8	148.1	630.80	188.66	21,772	1,348	10.742
	20.0	149.5	629.02	190.45	21,952	1,359	10.736
	20.6	153.6	623.69	195.67	22,470	1,392	10.716
	21.4	159.2	616.63	202.80	23,175	1,435	10.689
	22.2	164.7	609.61	209.81	23,859	1,477	10.663

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323	23.0	170.2	602.63	216.82	24,536	1,519	10.637
	23.4	172.9	599.15	220.25	24,863	1,539	10.624
	23.8	175.6	595.69	223.69	25,189	1,560	10.611
	24.6	181.0	588.78	230.57	25,838	1,600	10.585
	25.4	186.4	581.92	237.45	26,479	1,640	10.560
	26.2	191.8	575.10	244.33	27,114	1,679	10.534
	27.0	197.1	568.32	251.08	27,727	1,717	10.508
	28.6	207.7	554.88	264.59	28,936	1,791	10.457
	29.4	212.9	548.22	271.21	29,516	1,827	10.432
	29.9	216.1	544.08	275.29	29,870	1,850	10.416
	30.2	218.1	541.60	277.83	30,090	1,863	10.406
	31.8	228.4	528.48	290.96	31,209	1,932	10.356
	33.3	237.9	516.33	303.06	32,213	1,995	10.309
	34.9	248.0	503.52	315.92	33,258	2,059	10.260
	36.5	257.9	490.87	328.54	34,256	2,121	10.211
	37.5	264.0	483.05	336.31	34,857	2,159	10.180
	38.1	267.7	478.39	341.02	35,219	2,181	10.162
	39.5	276.2	467.59	351.85	36,035	2,231	10.120
	40.0	279.2	463.77	355.67	36,318	2,249	10.105
	42.5	294.0	444.88	374.52	37,680	2,333	10.030
	43.5	299.8	437.43	381.91	38,197	2,365	10.000
	44.5	305.6	430.05	389.30	38,707	2,397	9.971
	45.0	308.5	426.38	392.99	38,960	2,413	9.956
	47.5	322.7	408.28	411.08	40,161	2,487	9.884
	50.0	336.6	390.57	428.79	41,287	2,557	9.812
	52.5	350.2	373.25	446.11	42,339	2,622	9.742
	55.0	363.5	356.33	463.06	43,324	2,683	9.672
	57.5	376.5	339.79	479.62	44,243	2,739	9.604
	60.0	389.2	323.65	495.80	45,099	2,792	9.537
	62.5	401.5	307.91	511.46	45,882	2,841	9.471
	65.0	413.6	292.55	526.88	46,622	2,887	9.406
	65.5	416.0	289.53	529.94	46,765	2,895	9.393
	67.5	425.3	277.59	541.78	47,295	2,929	9.343
	70.0	436.8	263.02	556.43	47,929	2,967	9.281
	72.5	447.9	248.85	570.57	48,503	3,003	9.219
	75.0	458.7	235.06	584.33	49,032	3,036	9.160
	77.5	469.2	221.67	597.71	49,518	3,066	9.101
	80.0	479.4	208.67	610.70	49,962	3,094	9.044
	90.0	517.2	160.61	658.85	51,381	3,181	8.830
	100.0	550.0	118.82	700.64	52,311	3,239	8.640

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325	5.0	39.5	779.31	50.32	6,443	396	11.315
	5.6	44.1	773.38	56.18	7,166	441	11.293
	5.9	46.4	770.43	59.11	7,526	463	11.283
	6.0	47.2	769.45	60.13	7,651	471	11.280
	6.4	50.3	765.52	64.08	8,134	500	11.266
	6.7	52.6	762.58	67.01	8,490	522	11.256
	7.1	55.7	758.67	70.96	8,969	552	11.242
	7.5	58.7	754.77	74.78	9,428	580	11.228
	7.9	61.8	750.88	78.73	9,902	609	11.214
	8.0	62.5	749.91	79.62	10,008	616	11.211
	8.3	64.8	747.00	82.55	10,357	638	11.201
	8.7	67.9	743.13	86.50	10,826	666	11.187
	9.1	70.9	739.27	90.32	11,276	694	11.173
	9.5	73.9	735.41	94.14	11,724	722	11.159
	9.9	76.9	731.57	97.96	12,170	749	11.146
	10.3	79.9	727.74	101.78	12,613	777	11.132
	10.7	82.9	723.92	105.61	13,056	804	11.118
	11.1	85.9	720.11	109.43	13,495	831	11.104
	11.5	88.9	716.31	113.25	13,932	857	11.091
	11.9	91.9	712.52	117.07	14,366	884	11.077
	12.3	94.9	708.74	120.89	14,799	910	11.064
	12.7	97.8	704.97	124.59	15,214	936	11.050
	13.1	100.8	701.21	128.41	15,642	962	11.036
	13.5	103.7	697.46	132.10	16,053	988	11.023
	13.9	106.6	693.72	135.80	16,462	1,013	11.010
	14.3	109.6	689.99	139.62	16,883	1,039	10.996
	14.7	112.5	686.28	143.31	17,287	1,064	10.983
	15.1	115.4	682.57	147.01	17,690	1,089	10.969
	15.5	118.3	678.87	150.70	18,090	1,113	10.956
	15.9	121.2	675.18	154.39	18,487	1,138	10.942
	16.3	124.1	671.50	158.09	18,884	1,162	10.929
	17.5	132.7	660.52	169.04	20,044	1,234	10.889
	18.3	138.4	653.25	176.31	20,805	1,280	10.862
	18.7	141.3	649.63	180.00	21,188	1,303	10.849
	19.1	144.1	646.02	183.57	21,556	1,326	10.836
	19.8	149.0	639.73	189.81	22,193	1,366	10.813
327	2.9	23.2	810.29	29.55	3,880	237	11.458
	3.2	25.6	807.27	32.61	4,274	261	11.448
	3.6	28.7	803.24	36.56	4,780	292	11.434
	4.0	31.9	799.23	40.64	5,301	324	11.420

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327	4.5	35.8	794.23	45.61	5,931	363	11.403
	5.1	40.5	788.24	51.59	6,684	409	11.382
	5.6	44.4	783.27	56.56	7,305	447	11.364
	6.4	50.6	775.36	64.46	8,285	507	11.337
	6.7	52.9	772.40	67.39	8,646	529	11.326
	7.1	56.0	768.46	71.34	9,130	559	11.312
	7.5	59.1	764.54	75.29	9,612	588	11.298
	7.9	62.2	760.62	79.24	10,092	617	11.285
	8.3	65.2	756.72	83.06	10,553	646	11.271
	8.7	68.3	752.82	87.01	11,028	674	11.258
	9.1	71.3	748.93	90.83	11,484	703	11.244
	9.5	74.4	745.06	94.78	11,954	731	11.230
	9.9	77.4	741.19	98.60	12,405	759	11.216
	10.3	80.4	737.34	102.42	12,854	787	11.202
	10.7	83.5	733.49	106.37	13,318	814	11.189
	11.1	86.5	729.66	110.19	13,762	841	11.175
	11.5	89.5	725.83	114.01	14,205	869	11.162
	11.9	92.5	722.02	117.83	14,645	895	11.148
	12.3	95.5	718.21	121.66	15,084	922	11.134
	12.7	98.4	714.42	125.35	15,504	949	11.121
	13.1	101.4	710.63	129.17	15,937	975	11.107
	13.5	104.4	706.86	132.99	16,369	1,001	11.094
	14.3	110.3	699.34	140.51	17,210	1,052	11.067
	15.1	116.2	691.86	148.03	18,043	1,103	11.040
	15.9	122.0	684.42	155.41	18,850	1,153	11.013
	17.5	133.6	669.66	170.19	20,443	1,250	10.959
	18.3	139.3	662.34	177.45	21,212	1,298	10.933
	19.1	145.0	655.06	184.71	21,973	1,344	10.906
	20.6	155.7	641.53	198.34	23,381	1,430	10.857
	22.2	166.9	627.24	212.61	24,821	1,518	10.804
	23.8	178.0	613.12	226.75	26,217	1,603	10.752
	25.4	188.9	599.15	240.64	27,556	1,686	10.700
	27.0	199.8	585.35	254.52	28,865	1,765	10.649
	28.6	210.5	571.71	268.15	30,120	1,842	10.598
	30.2	221.1	558.23	281.66	31,335	1,916	10.547
	31.8	231.5	544.91	294.90	32,496	1,988	10.497
	33.3	241.2	532.56	307.26	33,556	2,052	10.450
	34.9	251.4	519.55	320.25	34,643	2,119	10.400
	36.5	261.5	506.71	333.12	35,695	2,183	10.351
	38.1	271.5	494.02	345.86	36,711	2,245	10.302
	40.0	283.1	479.16	360.64	37,853	2,315	10.245



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330	5.6	44.8	798.23	57.07	7,509	455	11.470
	5.9	47.2	795.22	60.13	7,898	478	11.460
	6.4	51.1	790.23	65.10	8,525	516	11.443
	6.7	53.4	787.25	68.03	8,892	539	11.432
	7.1	56.5	783.27	71.97	9,384	569	11.418
	7.5	59.7	779.31	76.05	9,892	599	11.404
	7.9	62.8	775.36	80.00	10,381	629	11.391
	8.3	65.9	771.41	83.95	10,867	658	11.377
	8.7	68.9	767.48	87.77	11,334	687	11.363
	9.1	72.0	763.56	91.72	11,816	716	11.350
	9.5	75.1	759.64	95.67	12,295	745	11.336
	9.9	78.2	755.74	99.62	12,772	774	11.322
	10.3	81.2	751.85	103.44	13,229	802	11.308
	10.7	84.3	747.97	107.39	13,701	830	11.295
	11.1	87.3	744.09	111.21	14,154	858	11.281
	11.5	90.3	740.23	115.03	14,605	885	11.267
	11.9	93.4	736.38	118.98	15,070	913	11.254
	12.3	96.4	732.53	122.80	15,516	940	11.240
	12.7	99.4	728.70	126.62	15,961	967	11.227
	13.1	102.4	724.88	130.45	16,404	994	11.213
	13.5	105.4	721.07	134.27	16,843	1,021	11.200
	14.3	111.3	713.47	141.78	17,700	1,073	11.173
	15.1	117.3	705.92	149.43	18,565	1,125	11.146
	15.9	123.2	698.40	156.94	19,404	1,176	11.119
	16.7	129.0	690.93	164.33	20,220	1,226	11.092
	17.1	132.0	687.20	168.15	20,640	1,251	11.079
	17.5	134.9	683.49	171.85	21,044	1,275	11.065
	18.3	140.7	676.10	179.24	21,843	1,324	11.039
	19.1	146.4	668.74	186.50	22,619	1,371	11.012
	19.8	151.5	662.34	192.99	23,307	1,412	10.989
	20.6	157.2	655.06	200.25	24,068	1,459	10.963
	21.4	162.9	647.83	207.52	24,822	1,504	10.936
	22.2	168.5	640.63	214.65	25,552	1,549	10.910
	23.0	174.1	633.47	221.78	26,275	1,593	10.884
	23.8	179.7	626.35	228.92	26,991	1,636	10.858
	24.6	185.3	619.28	236.05	27,699	1,679	10.832
	25.4	190.8	612.24	243.06	28,385	1,720	10.806
	27.0	201.8	598.28	257.07	29,736	1,802	10.755
	28.6	212.6	584.49	270.83	31,030	1,880	10.703
	29.4	218.0	577.66	277.71	31,668	1,919	10.678

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330	30.2	223.3	570.86	284.46	32,283	1,956	10.653
	31.8	233.9	557.39	297.96	33,496	2,030	10.602
	33.3	243.7	544.91	310.45	34,592	2,096	10.555
	34.9	254.0	531.75	323.57	35,715	2,164	10.506
	36.5	264.2	518.75	336.56	36,801	2,230	10.456
	38.1	274.3	505.91	349.43	37,851	2,294	10.407
	40.0	286.1	490.87	364.46	39,043	2,366	10.350
	42.5	301.3	471.43	383.82	40,523	2,456	10.275
	45.0	316.3	452.39	402.93	41,930	2,541	10.201
	47.5	330.9	433.74	421.53	43,240	2,621	10.128
	48.5	336.7	426.38	428.92	43,747	2,651	10.099
	50.0	345.3	415.48	439.87	44,482	2,696	10.056
	53.0	362.1	394.08	461.27	45,861	2,779	9.971
	55.0	373.0	380.13	475.16	46,714	2,831	9.915
	60.0	399.5	346.36	508.92	48,665	2,950	9.778
	63.5	417.3	323.65	531.59	49,873	3,023	9.686
	70.0	448.8	283.53	571.72	51,812	3,140	9.519
	75.0	471.7	254.47	600.89	53,066	3,216	9.397
333	42.6	305.1	482.27	388.66	41,852	2,514	10.377
	43.0	307.5	479.16	391.72	42,085	2,528	10.365
336	32.0	239.9	581.07	305.61	35,695	2,125	10.807
	35.5	263.1	551.55	335.16	38,359	2,283	10.698
	36.5	269.6	543.25	343.44	39,080	2,326	10.667
	40.0	292.0	514.72	371.97	41,482	2,469	10.560
	43.0	310.7	490.87	395.80	43,389	2,583	10.470
	47.5	338.0	456.17	430.57	46,011	2,738	10.337
	48.5	343.9	448.63	438.09	46,552	2,771	10.308
	60.0	408.4	366.44	520.25	51,879	3,088	9.985
	63.0	424.2	346.36	540.38	53,023	3,156	9.905
	65.0	434.4	333.29	553.38	53,724	3,198	9.853
339	3.2	26.5	868.83	33.76	4,759	281	11.872
	3.6	29.8	864.65	37.96	5,338	315	11.858
	4.0	33.0	860.49	42.04	5,898	348	11.844
	4.5	37.1	855.30	47.26	6,611	390	11.827
	5.1	42.0	849.09	53.50	7,458	440	11.806
	5.6	46.0	843.93	58.60	8,144	481	11.788
	5.9	48.5	840.85	61.78	8,571	505	11.778
	6.4	52.5	835.71	66.88	9,251	546	11.761

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
339	6.7	54.9	832.64	69.94	9,658	570	11.751
	7.1	58.1	828.56	74.01	10,196	602	11.737
	7.5	61.3	824.48	78.09	10,732	633	11.723
	7.9	64.5	820.41	82.17	11,267	665	11.709
	8.3	67.7	816.36	86.24	11,797	696	11.695
	8.4	68.5	815.34	87.26	11,929	704	11.692
	8.7	70.9	812.31	90.32	12,326	727	11.682
	9.1	74.0	808.27	94.27	12,834	758	11.667
	9.5	77.2	804.25	98.34	13,357	788	11.654
	9.6	78.0	803.24	99.36	13,488	796	11.651
	9.7	78.8	802.24	100.38	13,618	803	11.647
	9.9	80.4	800.23	102.42	13,879	818	11.640
	10.3	83.5	796.22	106.37	14,380	848	11.627
	10.7	86.6	792.23	110.32	14,879	878	11.613
	10.9	88.2	790.23	112.36	15,136	893	11.606
	11.1	89.8	788.24	114.39	15,391	908	11.599
	11.5	92.9	784.27	118.34	15,885	937	11.585
	11.9	96.0	780.30	122.29	16,377	966	11.572
	12.2	98.3	777.33	125.22	16,740	988	11.562
	12.3	99.1	776.34	126.24	16,866	995	11.558
	12.7	102.2	772.40	130.19	17,353	1,024	11.545
	13.1	105.3	768.46	134.14	17,838	1,052	11.531
	13.5	108.4	764.54	138.09	18,320	1,080	11.518
	14.3	114.5	756.72	145.86	19,260	1,136	11.491
	14.7	117.6	752.82	149.81	19,735	1,164	11.477
	15.1	120.6	748.93	153.63	20,191	1,191	11.464
	15.5	123.7	745.06	157.58	20,661	1,219	11.450
	15.9	126.7	741.19	161.40	21,112	1,246	11.437
	16.5	131.2	735.41	167.13	21,785	1,286	11.417
	16.7	132.7	733.49	169.04	22,008	1,299	11.410
	17.5	138.8	725.83	176.82	22,913	1,351	11.383
	18.3	144.7	718.21	184.33	23,775	1,403	11.356
	19.1	150.7	710.63	191.97	24,644	1,454	11.330
	19.8	155.9	704.03	198.60	25,391	1,498	11.307
	20.6	161.8	696.53	206.11	26,228	1,547	11.280
	21.4	167.6	689.06	213.50	27,042	1,596	11.254
	22.2	173.4	681.64	220.89	27,847	1,643	11.227
	23.0	179.2	674.26	228.28	28,645	1,690	11.201
	23.8	185.0	666.91	235.67	29,434	1,737	11.175
	24.6	190.7	659.61	242.93	30,200	1,782	11.149
	25.4	196.4	652.35	250.19	30,958	1,827	11.123

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339	27.0	207.8	637.94	264.71	32,451	1,914	11.072
	28.6	218.9	623.69	278.85	33,868	1,998	11.020
	29.4	224.5	616.63	285.99	34,575	2,040	10.995
	30.2	230.0	609.61	292.99	35,258	2,080	10.969
	31.8	240.9	595.69	306.88	36,589	2,159	10.919
	33.3	251.1	582.78	319.87	37,809	2,230	10.872
	34.9	261.7	569.17	333.38	39,045	2,304	10.822
	36.5	272.3	555.72	346.88	40,255	2,375	10.772
	38.1	282.7	542.43	360.13	41,412	2,443	10.723
	40.0	295.0	526.85	375.80	42,748	2,522	10.665
	42.5	310.8	506.71	395.92	44,402	2,619	10.590
	45.0	326.3	486.95	415.67	45,963	2,711	10.515
	46.0	332.4	479.16	423.44	46,560	2,747	10.486
	47.5	341.5	467.59	435.03	47,434	2,798	10.442
	50.0	356.4	448.63	454.01	48,818	2,880	10.369
	61.0	418.2	369.84	532.74	53,943	3,183	10.062
	63.0	428.8	356.33	546.24	54,723	3,229	10.009
	65.0	439.2	343.07	559.49	55,460	3,272	9.956
343	3.2	26.8	889.85	34.14	4,928	288	12.014
	3.6	30.1	885.63	38.34	5,521	322	12.000
	4.0	33.4	881.41	42.55	6,113	357	11.986
	4.5	37.6	876.16	47.90	6,862	400	11.969
	5.1	42.5	869.87	54.14	7,729	451	11.948
	5.6	46.6	864.65	59.36	8,449	493	11.930
	5.9	49.1	861.53	62.55	8,888	518	11.920
	6.4	53.1	856.33	67.64	9,583	559	11.902
	6.7	55.6	853.23	70.83	10,017	584	11.892
	7.1	58.8	849.09	74.90	10,568	616	11.878
	7.5	62.1	844.96	79.11	11,136	649	11.864
	7.9	65.3	840.85	83.18	11,682	681	11.850
	8.3	68.5	836.74	87.26	12,227	713	11.837
	8.7	71.7	832.64	91.34	12,768	745	11.823
	9.1	74.9	828.56	95.41	13,306	776	11.809
	9.5	78.1	824.48	99.49	13,843	808	11.795
	9.9	81.3	820.41	103.57	14,377	839	11.781
	10.3	84.5	816.36	107.64	14,908	869	11.768
	10.7	87.7	812.31	111.72	15,437	900	11.754
	11.1	90.9	808.27	115.80	15,963	930	11.740
	11.5	94.0	804.25	119.75	16,469	960	11.727
	11.9	97.2	800.23	123.82	16,989	990	11.713

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343	12.3	100.3	796.22	127.77	17,491	1,020	11.700
	12.5	101.9	794.23	129.81	17,749	1,035	11.693
	12.7	103.5	792.23	131.85	18,007	1,049	11.686
	13.1	106.6	788.24	135.80	18,504	1,079	11.673
	13.5	109.7	784.27	139.75	18,998	1,108	11.659
	14.3	115.9	776.34	147.64	19,977	1,165	11.632
	15.0	121.3	769.45	154.52	20,823	1,215	11.608
	15.1	122.1	768.46	155.54	20,949	1,222	11.605
	15.5	125.2	764.54	159.49	21,431	1,249	11.591
	15.9	128.3	760.62	163.44	21,911	1,277	11.578
	16.7	134.4	752.82	171.21	22,846	1,332	11.551
	17.5	140.5	745.06	178.98	23,772	1,386	11.524
	18.3	146.5	737.34	186.62	24,672	1,439	11.497
	19.1	152.6	729.66	194.39	25,581	1,491	11.471
	19.8	157.8	722.97	201.02	26,346	1,536	11.448
	20.6	163.8	715.37	208.66	27,221	1,587	11.421
	21.4	169.7	707.80	216.18	28,072	1,637	11.395
	22.2	175.6	700.28	223.69	28,913	1,686	11.369
	23.0	181.5	692.79	231.21	29,748	1,735	11.342
	23.8	187.4	685.35	238.73	30,574	1,782	11.316
	24.6	193.2	677.94	246.11	31,374	1,829	11.290
	25.4	198.9	670.58	253.38	32,152	1,875	11.264
	27.0	210.4	655.97	268.03	33,700	1,965	11.213
	28.6	221.8	641.53	282.55	35,201	2,052	11.161
	29.4	227.4	634.36	289.68	35,924	2,094	11.136
	30.2	233.0	627.24	296.82	36,641	2,136	11.110
	31.8	244.1	613.12	310.96	38,037	2,217	11.059
	33.3	254.3	600.02	323.95	39,288	2,291	11.012
	34.9	265.2	586.21	337.83	40,600	2,367	10.962
	36.5	275.9	572.55	351.46	41,856	2,441	10.912
	38.1	286.5	559.06	364.97	43,074	2,511	10.863
	40.0	298.9	543.25	380.76	44,458	2,592	10.805
	41.0	305.4	535.02	389.04	45,170	2,633	10.775
	42.5	315.0	522.79	401.27	46,199	2,694	10.729
	45.0	330.7	502.73	421.27	47,829	2,789	10.655
	47.5	346.2	483.05	441.02	49,381	2,879	10.581
	50.0	361.3	463.77	460.25	50,828	2,964	10.508
	53.0	379.1	441.15	482.93	52,464	3,059	10.422
	60.0	418.8	390.57	533.50	55,810	3,254	10.227
	65.0	445.6	356.33	567.64	57,835	3,373	10.093

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350	4.0	34.1	918.63	43.44	6,501	372	12.233
	4.5	38.3	913.27	48.79	7,281	417	12.216
	5.1	43.4	906.85	55.29	8,223	470	12.195
	5.6	47.6	901.52	60.64	8,993	513	12.177
	5.9	50.1	898.33	63.82	9,449	540	12.167
	6.4	54.2	893.03	69.04	10,192	583	12.150
	6.7	56.7	889.85	72.23	10,645	609	12.139
	7.1	60.0	885.63	76.43	11,238	643	12.125
	7.5	63.4	881.41	80.76	11,848	677	12.112
	7.9	66.7	877.21	84.97	12,437	710	12.098
	8.3	69.9	873.01	89.04	13,003	744	12.084
	8.7	73.2	868.83	93.25	13,587	777	12.070
	9.1	76.5	864.65	97.45	14,166	810	12.056
	9.5	79.8	860.49	101.66	14,745	842	12.043
	9.9	83.0	856.33	105.73	15,300	875	12.029
	10.3	86.3	852.19	109.94	15,873	907	12.015
	10.7	89.5	848.06	114.01	16,423	939	12.002
	11.1	92.8	843.93	118.22	16,991	971	11.988
	11.5	96.0	839.82	122.29	17,536	1,002	11.974
	11.9	99.2	835.71	126.37	18,079	1,033	11.960
	12.3	102.4	831.62	130.45	18,621	1,064	11.947
	12.7	105.6	827.54	134.52	19,158	1,095	11.933
	13.1	108.8	823.46	138.60	19,694	1,126	11.920
	13.5	112.0	819.40	142.68	20,227	1,156	11.906
	14.3	118.4	811.30	150.83	21,286	1,216	11.879
	15.1	124.7	803.24	158.85	22,316	1,275	11.852
	15.9	131.0	795.22	166.88	23,337	1,334	11.825
	16.7	137.3	787.25	174.90	24,348	1,391	11.798
	17.5	143.5	779.31	182.80	25,332	1,448	11.771
	18.3	149.7	771.41	190.70	26,307	1,503	11.745
	19.1	155.9	763.56	198.60	27,273	1,558	11.718
	19.8	161.2	756.72	205.35	28,088	1,605	11.695
	20.6	167.3	748.93	213.12	29,019	1,659	11.668
	21.4	173.4	741.19	220.89	29,941	1,711	11.642
	22.2	179.5	733.49	228.66	30,854	1,763	11.616
	23.0	185.5	725.83	236.31	31,742	1,814	11.589
	23.8	191.5	718.21	243.95	32,620	1,864	11.563
	24.6	197.4	710.63	251.46	33,473	1,913	11.537
	25.4	203.3	703.09	258.98	34,318	1,961	11.511
	27.0	215.1	688.13	274.01	35,984	2,056	11.459
	28.6	226.7	673.34	288.79	37,585	2,148	11.408



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350	29.4	232.5	666.00	296.18	38,373	2,192	11.382
	30.2	238.2	658.70	303.44	39,138	2,236	11.356
	31.8	249.5	644.22	317.83	40,628	2,322	11.306
	33.3	260.1	630.80	331.34	42,001	2,400	11.258
	34.9	271.2	616.63	345.48	43,404	2,480	11.208
	35.0	271.9	615.75	346.37	43,491	2,485	11.205
	36.5	282.2	602.63	359.49	44,763	2,558	11.158
	38.1	293.1	588.78	373.38	46,081	2,633	11.109
	40.0	305.8	572.55	389.55	47,574	2,719	11.051
	42.5	322.3	551.55	410.57	49,454	2,826	10.975
	45.0	338.5	530.93	431.21	51,233	2,927	10.900
	47.5	354.4	510.70	451.46	52,913	3,023	10.826
	50.0	369.9	490.87	471.21	54,484	3,114	10.752
	62.0	440.4	401.15	561.02	60,862	3,477	10.415
	70.0	483.4	346.36	615.80	64,120	3,664	10.204
355	4.0	34.6	945.69	44.08	6,789	383	12.410
	4.5	38.9	940.25	49.55	7,610	429	12.392
	4.8	41.5	936.99	52.87	8,107	456	12.382
	5.0	43.2	934.82	55.03	8,428	474	12.375
	5.1	44.0	933.74	56.05	8,580	483	12.372
	5.6	48.3	928.33	61.53	9,392	529	12.354
	5.9	50.8	925.09	64.71	9,861	556	12.344
	6.0	51.6	924.01	65.73	10,010	564	12.340
	6.1	52.5	922.94	66.88	10,180	573	12.337
	6.3	54.2	920.78	69.04	10,497	591	12.330
	6.4	55.0	919.71	70.06	10,646	600	12.327
	6.5	55.9	918.63	71.21	10,815	609	12.323
	6.7	57.6	916.48	73.38	11,132	627	12.316
	7.0	60.1	913.27	76.56	11,594	653	12.305
	7.1	60.9	912.20	77.58	11,742	662	12.302
	7.5	64.3	907.92	81.91	12,370	697	12.288
	7.9	67.6	903.65	86.11	12,975	731	12.275
	8.0	68.5	902.59	87.26	13,141	740	12.271
	8.3	71.0	899.39	90.45	13,598	766	12.261
	8.5	72.6	897.27	92.48	13,888	783	12.254
	8.7	74.3	895.15	94.65	14,197	800	12.247
	8.8	75.1	894.09	95.67	14,342	808	12.243
	9.0	76.8	891.97	97.83	14,650	825	12.237
	9.1	77.6	890.91	98.85	14,794	834	12.233
	9.4	80.1	887.74	102.04	15,246	859	12.223

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355	9.5	80.9	886.68	103.06	15,389	867	12.219
	9.6	81.8	885.63	104.20	15,551	876	12.216
	9.9	84.3	882.47	107.39	16,000	901	12.206
	10.0	85.1	881.41	108.41	16,143	909	12.202
	10.2	86.7	879.31	110.45	16,428	926	12.195
	10.3	87.6	878.26	111.59	16,588	934	12.192
	10.7	90.9	874.06	115.80	17,176	967	12.178
	11.1	94.1	869.87	119.87	17,739	1,000	12.164
	11.5	97.4	865.70	124.08	18,321	1,032	12.151
	11.8	99.9	862.57	127.26	18,759	1,057	12.141
	11.9	100.7	861.53	128.28	18,899	1,065	12.137
	12.3	104.0	857.37	132.48	19,474	1,097	12.124
	12.5	105.6	855.30	134.52	19,751	1,113	12.117
	12.7	107.2	853.23	136.56	20,028	1,128	12.110
	13.0	109.6	850.12	139.62	20,443	1,152	12.100
	13.1	110.5	849.09	140.76	20,598	1,160	12.096
	13.5	113.7	844.96	144.84	21,147	1,191	12.083
	13.9	116.9	840.85	148.92	21,694	1,222	12.069
	14.3	120.2	836.74	153.12	22,256	1,253	12.056
	14.7	123.4	832.64	157.20	22,798	1,284	12.042
	15.1	126.6	828.56	161.27	23,336	1,314	12.029
	15.5	129.8	824.48	165.35	23,873	1,345	12.015
	15.9	133.0	820.41	169.43	24,407	1,375	12.002
	16.0	133.8	819.40	170.45	24,540	1,382	11.998
	16.3	136.2	816.36	173.50	24,937	1,404	11.988
	16.7	139.3	812.31	177.45	25,448	1,434	11.975
	17.5	145.7	804.25	185.61	26,499	1,492	11.948
	18.3	152.0	796.22	193.63	27,520	1,550	11.921
	19.1	158.2	788.24	201.53	28,515	1,607	11.895
	19.8	163.7	781.29	208.54	29,391	1,656	11.871
	20.0	165.2	779.31	210.45	29,627	1,669	11.865
	20.6	169.9	773.38	216.43	30,367	1,711	11.845
	21.0	173.0	769.45	220.38	30,852	1,738	11.831
	21.4	176.1	765.52	224.33	31,335	1,765	11.818
	22.2	182.2	757.69	232.10	32,276	1,818	11.792
	23.0	188.3	749.91	239.87	33,208	1,871	11.766
	23.8	194.4	742.16	247.64	34,131	1,923	11.739
	24.5	199.7	735.41	254.39	34,925	1,968	11.717
	24.6	200.4	734.45	255.29	35,029	1,974	11.713
	25.0	203.5	730.62	259.24	35,492	1,999	11.700
	25.4	206.5	726.79	263.06	35,934	2,024	11.687

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
355	27.0	218.4	711.58	278.22	37,669	2,122	11.635
	28.6	230.2	696.53	293.25	39,352	2,217	11.584
	29.4	236.1	689.06	300.76	40,181	2,264	11.558
	30.2	241.9	681.64	308.15	40,987	2,309	11.532
	30.6	244.8	677.94	311.85	41,387	2,332	11.520
	31.8	253.5	666.91	322.93	42,574	2,398	11.482
	32.8	260.6	657.79	331.97	43,525	2,452	11.450
	33.3	264.2	653.25	336.56	44,005	2,479	11.434
	34.9	275.5	638.83	350.96	45,485	2,563	11.384
	35.0	276.2	637.94	351.85	45,576	2,568	11.381
	36.5	286.7	624.58	365.22	46,919	2,643	11.334
	38.1	297.8	610.49	379.36	48,310	2,721	11.284
	40.0	310.7	593.96	395.80	49,883	2,811	11.226
	42.5	327.5	572.55	417.20	51,870	2,923	11.150
	45.0	344.0	551.55	438.22	53,750	3,028	11.074
	47.5	360.2	530.93	458.85	55,528	3,128	11.000
	50.0	376.1	510.70	479.11	57,209	3,223	10.927
	52.5	391.7	490.87	498.98	58,794	3,312	10.854
	55.0	406.9	471.43	518.34	60,273	3,396	10.783
	57.5	421.9	452.39	537.45	61,681	3,475	10.712
	60.0	436.5	433.74	556.05	62,990	3,549	10.643
	62.5	450.9	415.48	574.39	64,233	3,618	10.574
	65.0	464.9	397.61	592.23	65,386	3,683	10.507
	67.5	478.6	380.13	609.68	66,465	3,744	10.441
	70.0	492.0	363.05	626.75	67,474	3,801	10.375
	72.5	505.1	346.36	643.44	68,416	3,854	10.311
	75.0	517.9	330.06	659.75	69,294	3,904	10.248
	77.5	530.4	314.16	675.67	70,111	3,950	10.186
	80.0	542.6	298.65	691.21	70,871	3,992	10.125
	95.0	609.2	213.82	776.05	74,331	4,187	9.786
360	5.6	48.9	955.53	62.29	9,782	544	12.531
	5.9	51.5	952.24	65.61	10,286	572	12.520
	23.4	194.2	770.43	247.39	35,206	1,956	11.929
	23.8	197.3	766.50	251.34	35,689	1,983	11.916
	24.6	203.5	758.67	259.24	36,650	2,036	11.890
	25.4	209.6	750.88	267.01	37,582	2,088	11.863
	25.8	212.6	747.00	270.83	38,036	2,114	11.850
	26.2	215.7	743.13	274.78	38,507	2,139	11.837
	26.6	218.7	739.27	278.60	38,956	2,164	11.824
	27.0	221.7	735.41	282.42	39,404	2,189	11.811

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
360	28.6	233.7	720.11	297.71	41,175	2,288	11.760
	29.0	236.7	716.31	301.53	41,612	2,312	11.747
	29.4	239.7	712.52	305.35	42,047	2,336	11.734
	29.8	242.7	708.74	309.17	42,480	2,360	11.721
	30.2	245.6	704.97	312.87	42,895	2,383	11.709
	32.2	260.3	686.28	331.59	44,968	2,498	11.645
	34.9	279.8	661.43	356.43	47,632	2,646	11.560
	35.4	283.4	656.88	361.02	48,114	2,673	11.544
	38.0	301.8	633.47	384.46	50,522	2,806	11.463
	40.0	315.7	615.75	402.17	52,282	2,904	11.401
	42.0	329.4	598.28	419.62	53,967	2,998	11.340
	45.0	349.6	572.55	445.35	56,365	3,131	11.250
	47.0	362.8	555.72	462.17	57,874	3,215	11.190
	52.0	395.0	514.72	503.18	61,368	3,409	11.043
	53.0	401.3	506.71	511.21	62,021	3,445	11.014
	65.0	472.9	415.48	602.42	68,714	3,817	10.680
	70.0	500.6	380.13	637.71	70,945	3,942	10.547
365	3.6	32.1	1,005.47	40.89	6,676	366	12.777
	4.0	35.6	1,000.98	45.35	7,388	405	12.763
	4.5	40.0	995.38	50.96	8,280	454	12.746
	5.1	45.3	988.68	57.71	9,346	512	12.725
	5.6	49.6	983.12	63.18	10,204	560	12.708
	5.9	52.3	979.79	66.62	10,741	588	12.697
	6.4	56.6	974.25	72.10	11,593	635	12.680
	6.7	59.2	970.93	75.41	12,106	663	12.670
	7.1	62.7	966.52	79.87	12,793	701	12.655
	7.5	66.1	962.11	84.20	13,458	738	12.642
	7.9	69.6	957.72	88.66	14,139	774	12.628
	8.3	73.0	953.34	92.99	14,797	811	12.614
	8.7	76.4	948.96	97.32	15,453	847	12.600
	9.1	79.9	944.60	101.78	16,125	883	12.586
	9.5	83.3	940.25	106.11	16,775	919	12.573
	9.9	86.7	935.90	110.45	17,423	955	12.559
	10.3	90.1	931.57	114.78	18,066	990	12.545
	10.7	93.5	927.25	119.11	18,707	1,025	12.532
	11.0	96.0	924.01	122.29	19,175	1,051	12.521
	11.9	103.6	914.34	131.97	20,591	1,129	12.491
	12.3	107.0	910.06	136.31	21,222	1,163	12.477
	12.7	110.3	905.78	140.51	21,828	1,196	12.463
	13.1	113.7	901.52	144.84	22,451	1,230	12.450



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
365	13.5	117.0	897.27	149.04	23,052	1,263	12.436
	14.3	123.7	888.79	157.58	24,266	1,329	12.409
	15.1	130.3	880.36	165.99	25,450	1,394	12.382
	15.9	136.9	871.97	174.39	26,621	1,459	12.355
	16.7	143.4	863.61	182.68	27,765	1,522	12.328
	17.5	150.0	855.30	191.08	28,916	1,584	12.301
	18.5	158.1	844.96	201.40	30,312	1,661	12.268
	19.1	162.9	838.79	207.52	31,131	1,706	12.248
	19.8	168.6	831.62	214.78	32,098	1,758	12.224
	20.6	175.0	823.46	222.93	33,171	1,817	12.198
	21.4	181.3	815.34	230.96	34,216	1,875	12.171
	22.2	187.7	807.27	239.11	35,270	1,932	12.145
	23.0	194.0	799.23	247.13	36,295	1,989	12.118
	23.8	200.3	791.23	255.16	37,312	2,044	12.092
	24.6	206.5	783.27	263.06	38,301	2,099	12.066
	25.4	212.7	775.36	270.96	39,280	2,153	12.040
	27.0	225.1	759.64	286.75	41,211	2,258	11.988
	28.6	237.3	744.09	302.29	43,070	2,360	11.936
	29.4	243.3	736.38	309.94	43,970	2,410	11.910
	30.2	249.4	728.70	317.71	44,878	2,459	11.885
	31.0	255.4	721.07	325.35	45,759	2,507	11.859
	31.8	261.3	713.47	332.87	46,616	2,554	11.833
	34.9	284.1	684.42	361.91	49,846	2,731	11.735
	36.5	295.7	669.66	376.69	51,439	2,819	11.685
	38.1	307.2	655.06	391.34	52,985	2,903	11.635
	40.0	320.6	637.94	408.41	54,740	2,999	11.577
	42.5	338.0	615.75	430.57	56,950	3,121	11.500
	45.0	355.1	593.96	452.36	59,047	3,236	11.425
	47.5	371.9	572.55	473.76	61,034	3,345	11.350
	50.0	388.4	551.55	494.78	62,914	3,448	11.276
	52.5	404.6	530.93	515.41	64,692	3,545	11.203
	55.0	420.5	510.70	535.67	66,373	3,637	11.131
	57.5	436.1	490.87	555.54	67,958	3,723	11.060
	60.0	451.3	471.43	574.90	69,437	3,805	10.990
	63.0	469.2	448.63	597.71	71,107	3,896	10.907
	65.0	480.9	433.74	612.61	72,154	3,954	10.852
368	2.9	26.1	1,030.35	33.25	5,541	301	12.909
	3.2	28.8	1,026.94	36.69	6,104	332	12.898
	3.6	32.4	1,022.40	41.27	6,851	372	12.884
	4.0	35.9	1,017.88	45.73	7,575	412	12.870



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
368	4.5	40.3	1,012.23	51.34	8,481	461	12.852
	5.1	45.6	1,005.47	58.09	9,565	520	12.831
	5.5	49.2	1,000.98	62.68	10,298	559	12.817
	6.4	57.1	990.91	72.74	11,893	646	12.786
	6.7	59.7	987.57	76.05	12,414	675	12.776
	7.1	63.2	983.12	80.51	13,113	713	12.762
	7.5	66.7	978.68	84.97	13,809	750	12.748
	7.9	70.2	974.25	89.43	14,503	788	12.734
	8.3	73.6	969.82	93.76	15,172	825	12.720
	8.7	77.1	965.41	98.22	15,859	862	12.706
	9.1	80.5	961.01	102.55	16,522	898	12.692
	9.5	84.0	956.62	107.01	17,204	935	12.679
	9.9	87.4	952.24	111.34	17,861	971	12.665
	10.3	90.9	947.87	115.80	18,536	1,007	12.651
	10.7	94.3	943.51	120.13	19,187	1,043	12.637
	11.1	97.7	939.16	124.46	19,836	1,078	12.624
	11.5	101.1	934.82	128.79	20,482	1,113	12.610
	11.9	104.5	930.49	133.12	21,124	1,148	12.596
	12.3	107.9	926.17	137.45	21,764	1,183	12.583
	12.7	111.3	921.86	141.78	22,401	1,217	12.569
	13.1	114.7	917.56	146.11	23,035	1,251	12.556
	13.5	118.0	913.27	150.32	23,648	1,285	12.542
	14.3	124.7	904.72	158.85	24,882	1,353	12.515
	15.1	131.4	896.21	167.39	26,106	1,419	12.488
	15.9	138.1	887.74	175.92	27,318	1,484	12.461
	16.7	144.7	879.31	184.33	28,500	1,549	12.434
	17.5	151.3	870.92	192.74	29,671	1,612	12.407
	18.3	157.8	862.57	201.02	30,813	1,675	12.380
	19.1	164.3	854.26	209.30	31,943	1,737	12.353
	19.8	170.0	847.02	216.56	32,927	1,790	12.330
	20.6	176.5	838.79	224.84	34,038	1,850	12.303
	21.4	182.9	830.60	232.99	35,120	1,909	12.277
	22.2	189.3	822.44	241.15	36,194	1,967	12.251
	23.0	195.7	814.33	249.30	37,256	2,025	12.224
	23.8	202.0	806.26	257.32	38,289	2,081	12.198
	24.6	208.3	798.23	265.35	39,315	2,137	12.172
	25.4	214.6	790.23	273.38	40,330	2,192	12.145
	27.0	227.1	774.37	289.30	42,314	2,299	12.093
	28.6	239.4	758.67	304.97	44,225	2,403	12.042
	29.4	245.5	750.88	312.74	45,157	2,454	12.016
	30.2	251.6	743.13	320.51	46,082	2,504	11.990

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Technical data of tubes

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368	31.8	263.7	727.74	335.92	47,886	2,602	11.939
	33.3	274.9	713.47	350.19	49,523	2,691	11.891
	34.9	286.7	698.40	365.22	51,210	2,783	11.841
	35.5	291.1	692.79	370.83	51,831	2,817	11.822
	36.5	298.4	683.49	380.13	52,850	2,872	11.791
	38.1	310.0	668.74	394.90	54,440	2,958	11.741
	40.0	323.6	651.44	412.23	56,261	3,057	11.682
	42.5	341.2	629.02	434.65	58,545	3,181	11.605
	45.0	358.5	606.99	456.69	60,714	3,299	11.530
	47.5	375.4	585.35	478.22	62,752	3,411	11.455
	48.5	382.2	576.80	486.88	63,558	3,454	11.425
	50.0	392.1	564.10	499.49	64,699	3,516	11.381
	55.0	424.6	522.79	540.89	68,283	3,711	11.235
	60.0	455.8	483.05	580.64	71,465	3,883	11.094
	65.0	485.7	444.88	618.73	74,274	4,037	10.956
	68.0	503.1	422.73	640.89	75,804	4,120	10.875
	70.0	514.4	408.28	655.29	76,754	4,172	10.822
	75.0	541.9	373.25	690.32	78,933	4,290	10.693
370	25.0	212.7	804.25	270.96	40,525	2,191	12.229
	31.8	265.2	737.34	337.83	48,728	2,634	12.009
373	26.5	226.5	804.25	288.54	43,557	2,335	12.286
	30.0	253.8	769.45	323.31	47,910	2,569	12.173
	31.4	264.5	755.74	336.94	49,562	2,658	12.128
	32.6	273.7	744.09	348.66	50,963	2,732	12.089
	34.0	284.3	730.62	362.17	52,550	2,817	12.045
	36.0	299.2	711.58	381.15	54,726	2,934	11.982
	38.1	314.7	691.86	400.89	56,931	3,052	11.916
	40.0	328.5	674.26	418.47	58,842	3,155	11.857
	50.0	398.3	585.35	507.39	67,755	3,633	11.555
	55.0	431.3	543.25	549.43	71,528	3,836	11.409
	60.0	463.2	502.73	590.06	74,915	4,016	11.267
	62.0	475.5	486.95	605.73	76,144	4,083	11.211
377	4.0	36.8	1,069.41	46.88	8,154	432	13.188
	5.1	46.8	1,056.69	59.62	10,309	547	13.149
	6.0	54.9	1,046.35	69.94	12,036	638	13.118
	6.4	58.5	1,041.76	74.52	12,797	679	13.104
	6.7	61.2	1,038.33	77.96	13,367	709	13.094
	7.0	63.9	1,034.91	81.40	13,935	739	13.084



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
377	7.1	64.8	1,033.77	82.55	14,124	749	13.080
	7.5	68.3	1,029.22	87.01	14,856	789	13.066
	7.9	71.9	1,024.67	91.59	15,604	828	13.052
	8.0	72.8	1,023.54	92.74	15,792	838	13.049
	8.3	75.5	1,020.14	96.18	16,352	867	13.038
	8.7	79.0	1,015.61	100.64	17,074	906	13.025
	9.0	81.7	1,012.23	104.08	17,629	935	13.014
	9.1	82.6	1,011.10	105.22	17,813	945	13.011
	9.5	86.1	1,006.60	109.68	18,529	983	12.997
	9.9	89.6	1,002.10	114.14	19,241	1,021	12.983
	10.0	90.5	1,000.98	115.29	19,425	1,031	12.980
	10.3	93.1	997.62	118.60	19,951	1,059	12.970
	10.7	96.7	993.15	123.18	20,677	1,097	12.956
	11.1	100.2	988.68	127.64	21,381	1,134	12.942
	11.5	103.7	984.23	132.10	22,081	1,171	12.928
	11.9	107.1	979.79	136.43	22,756	1,208	12.914
	12.3	110.6	975.35	140.89	23,451	1,244	12.901
	12.7	114.1	970.93	145.35	24,142	1,281	12.887
	13.1	117.6	966.52	149.81	24,830	1,317	12.874
	13.5	121.0	962.11	154.14	25,494	1,353	12.860
	13.9	124.5	957.72	158.60	26,176	1,388	12.846
	14.3	127.9	953.34	162.93	26,834	1,424	12.833
	14.7	131.3	948.96	167.26	27,489	1,459	12.819
	15.1	134.8	944.60	171.72	28,162	1,494	12.806
	15.5	138.2	940.25	176.05	28,811	1,528	12.792
	15.9	141.6	935.90	180.38	29,457	1,563	12.779
	16.3	145.0	931.57	184.71	30,101	1,597	12.765
	16.7	148.4	927.25	189.04	30,741	1,631	12.752
	17.5	155.2	918.63	197.71	32,016	1,698	12.725
	18.3	161.9	910.06	206.24	33,256	1,764	12.698
	19.1	168.6	901.52	214.78	34,488	1,829	12.671
	19.8	174.4	894.09	222.17	35,543	1,886	12.648
	20.6	181.1	885.63	230.70	36,752	1,949	12.621
	21.4	187.7	877.21	239.11	37,932	2,012	12.595
	22.2	194.3	868.83	247.52	39,101	2,074	12.568
	23.0	200.8	860.49	255.80	40,239	2,135	12.542
	23.8	207.3	852.19	264.08	41,367	2,195	12.515
	24.2	210.6	848.06	268.28	41,937	2,224	12.502
	24.6	213.8	843.93	272.36	42,485	2,254	12.489
	25.4	220.2	835.71	280.51	43,573	2,312	12.463
	27.0	233.1	819.40	296.94	45,740	2,426	12.411



Technical data of tubes

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377	28.6	245.7	803.24	312.99	47,809	2,537	12.359
	29.4	252.0	795.22	321.02	48,831	2,591	12.333
	30.2	258.3	787.25	329.04	49,842	2,644	12.307
	31.8	270.7	771.41	344.84	51,801	2,748	12.256
	32.9	279.2	760.62	355.67	53,123	2,818	12.221
	33.3	282.3	756.72	359.62	53,601	2,843	12.208
	34.9	294.4	741.19	375.03	55,434	2,941	12.157
	36.5	306.5	725.83	390.45	57,236	3,036	12.107
	38.1	318.4	710.63	405.61	58,968	3,129	12.057
	40.0	332.4	692.79	423.44	60,959	3,234	11.998
	42.5	350.6	669.66	446.62	63,474	3,367	11.921
	45.0	368.5	646.92	469.43	65,866	3,494	11.845
	47.5	386.0	624.58	491.72	68,120	3,614	11.770
	50.0	403.2	602.63	513.63	70,258	3,727	11.695
	52.5	420.1	581.07	535.16	72,284	3,835	11.621
	55.0	436.8	559.90	556.43	74,220	3,937	11.549
	57.5	453.1	539.13	577.20	76,036	4,033	11.477
	60.0	469.1	518.75	597.58	77,752	4,124	11.406
	62.5	484.8	498.76	617.58	79,372	4,210	11.336
	65.0	500.1	479.16	637.07	80,883	4,291	11.267
381	67.5	515.2	459.96	656.31	82,323	4,367	11.199
	70.0	530.0	441.15	675.16	83,677	4,439	11.132
	73.0	547.3	419.10	697.20	85,185	4,519	11.053
	80.0	586.0	369.84	746.50	88,282	4,683	10.874
	3.2	29.8	1,102.11	37.96	6,773	356	13.357
	3.6	33.5	1,097.41	42.68	7,599	399	13.343
	4.0	37.2	1,092.72	47.39	8,420	442	13.329
	4.5	41.8	1,086.86	53.25	9,437	495	13.312
	5.1	47.3	1,079.86	60.25	10,644	559	13.291
	5.6	51.8	1,074.05	65.99	11,627	611	13.273
	5.9	54.6	1,070.56	69.55	12,235	642	13.263
	6.4	59.1	1,064.77	75.29	13,210	694	13.245
	6.7	61.8	1,061.31	78.73	13,792	725	13.235
	7.1	65.5	1,056.69	83.44	14,587	765	13.221
	7.5	69.1	1,052.09	88.03	15,357	806	13.208
	7.9	72.7	1,047.49	92.61	16,122	846	13.194
	8.3	76.3	1,042.91	97.20	16,885	886	13.180
	8.7	79.9	1,038.33	101.78	17,644	926	13.166
	9.1	83.5	1,033.77	106.37	18,401	965	13.152
	9.5	87.0	1,029.22	110.83	19,132	1,005	13.138

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Technical data of tubes

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381	9.9	90.6	1,024.67	115.41	19,881	1,044	13.124
	10.3	94.2	1,020.14	120.00	20,629	1,082	13.111
	10.7	97.7	1,015.61	124.46	21,351	1,121	13.097
	11.1	101.3	1,011.10	129.04	22,090	1,159	13.083
	11.5	104.8	1,006.60	133.50	22,806	1,197	13.070
	11.9	108.3	1,002.10	137.96	23,518	1,235	13.056
	12.3	111.8	997.62	142.42	24,228	1,272	13.042
	12.7	115.4	993.15	147.01	24,956	1,309	13.029
	13.1	118.9	988.68	151.46	25,658	1,346	13.015
	13.5	122.4	984.23	155.92	26,358	1,383	13.001
	14.3	129.3	975.35	164.71	27,728	1,456	12.974
	15.1	136.3	966.52	173.63	29,107	1,527	12.947
	15.9	143.2	957.72	182.42	30,453	1,598	12.920
	16.7	150.0	948.96	191.08	31,765	1,668	12.893
	17.5	156.9	940.25	199.87	33,088	1,737	12.866
	18.3	163.7	931.57	208.54	34,379	1,805	12.839
	19.1	170.5	922.94	217.20	35,658	1,871	12.812
	19.8	176.4	915.41	224.71	36,756	1,929	12.789
	20.6	183.1	906.85	233.25	37,994	1,994	12.762
	21.4	189.8	898.33	241.78	39,220	2,059	12.736
	22.2	196.4	889.85	250.19	40,415	2,122	12.709
	23.0	203.1	881.41	258.73	41,621	2,184	12.683
	23.8	209.7	873.01	267.13	42,794	2,246	12.656
	24.6	216.2	864.65	275.41	43,937	2,307	12.630
	25.4	222.8	856.33	283.82	45,091	2,366	12.604
	27.0	235.7	839.82	300.25	47,306	2,483	12.552
	28.6	248.6	823.46	316.69	49,484	2,597	12.500
	29.4	254.9	815.34	324.71	50,528	2,653	12.474
	30.2	261.3	807.27	332.87	51,584	2,707	12.448
	31.8	273.9	791.23	348.92	53,625	2,815	12.397
	33.3	285.5	776.34	363.69	55,465	2,912	12.349
	34.9	297.9	760.62	379.49	57,399	3,013	12.298
	36.5	310.1	745.06	395.03	59,261	3,111	12.248
	38.1	322.2	729.66	410.45	61,071	3,206	12.197
	39.5	332.7	716.31	423.82	62,610	3,286	12.154
	40.0	336.4	711.58	428.54	63,146	3,315	12.138
	42.5	354.8	688.13	451.97	65,755	3,452	12.061
	43.5	362.1	678.87	461.27	66,768	3,505	12.031
	45.0	372.9	665.08	475.03	68,239	3,582	11.985
	47.5	390.7	642.42	497.71	70,599	3,706	11.909
	50.0	408.2	620.16	520.00	72,840	3,823	11.835

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381	55.0	442.2	576.80	563.31	76,963	4,040	11.688
	60.0	475.0	535.02	605.10	80,661	4,234	11.545
	62.5	490.9	514.72	625.35	82,350	4,323	11.475
	65.0	506.6	494.81	645.35	83,961	4,407	11.406
	70.0	536.9	456.17	683.95	86,880	4,560	11.270
	75.0	566.0	419.10	721.02	89,461	4,696	11.138
	95.0	670.1	286.52	853.63	96,909	5,087	10.654
390	5.9	55.9	1,123.40	71.21	13,135	673	13.581
	6.3	59.6	1,118.65	75.92	13,975	717	13.567
	6.7	63.3	1,113.91	80.64	14,814	760	13.553
	7.1	67.0	1,109.18	85.35	15,647	803	13.539
	7.5	70.7	1,104.47	90.06	16,477	846	13.526
	7.9	74.4	1,099.76	94.78	17,305	888	13.512
	8.3	78.1	1,095.06	99.49	18,128	930	13.498
	8.7	81.8	1,090.37	104.20	18,947	972	13.484
	9.1	85.5	1,085.70	108.92	19,765	1,013	13.470
	9.5	89.1	1,081.03	113.50	20,554	1,055	13.457
	9.9	92.8	1,076.37	118.22	21,364	1,096	13.442
	10.3	96.5	1,071.72	122.93	22,170	1,136	13.429
	10.7	100.1	1,067.09	127.52	22,951	1,177	13.415
	11.1	103.7	1,062.46	132.10	23,727	1,217	13.402
	11.5	107.3	1,057.84	136.69	24,501	1,257	13.388
	11.9	111.0	1,053.24	141.40	25,293	1,297	13.374
	12.3	114.6	1,048.64	145.99	26,061	1,336	13.360
	12.7	118.2	1,044.05	150.57	26,823	1,375	13.347
	13.1	121.8	1,039.48	155.16	27,585	1,414	13.333
	13.5	125.4	1,034.91	159.75	28,343	1,453	13.319
	13.9	128.9	1,030.35	164.20	29,073	1,491	13.306
	14.3	132.5	1,025.81	168.79	29,824	1,529	13.292
	14.7	136.1	1,021.27	173.38	30,573	1,567	13.279
	15.1	139.6	1,016.74	177.83	31,293	1,605	13.265
	15.5	143.2	1,012.23	182.42	32,035	1,642	13.251
	15.9	146.7	1,007.72	186.88	32,752	1,679	13.238
	16.3	150.2	1,003.23	191.34	33,465	1,716	13.224
	16.7	153.7	998.74	195.80	34,175	1,753	13.211
	17.1	157.3	994.26	200.38	34,903	1,789	13.197
	17.5	160.8	989.80	204.84	35,607	1,826	13.184
	17.9	164.3	985.34	209.30	36,308	1,861	13.170
	18.3	167.8	980.90	213.76	37,006	1,897	13.157
	18.7	171.2	976.46	218.09	37,679	1,933	13.144



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
390	19.1	174.7	972.03	222.55	38,371	1,968	13.130
	19.5	178.2	967.62	227.01	39,060	2,003	13.117
	19.9	181.6	963.21	231.34	39,724	2,037	13.103
	20.2	184.2	959.91	234.65	40,231	2,063	13.093
	20.6	187.7	955.53	239.11	40,912	2,098	13.080
	21.0	191.1	951.15	243.44	41,568	2,132	13.067
	21.4	194.5	946.78	247.77	42,221	2,166	13.053
	21.8	198.0	942.42	252.23	42,894	2,199	13.040
	22.2	201.4	938.07	256.56	43,541	2,233	13.027
	22.6	204.8	933.74	260.89	44,186	2,266	13.014
	23.0	208.2	929.41	265.22	44,828	2,299	13.000
	23.4	211.6	925.09	269.55	45,467	2,331	12.987
	23.8	214.9	920.78	273.76	46,084	2,364	12.974
	24.2	218.3	916.48	278.09	46,717	2,396	12.961
	24.6	221.7	912.20	282.42	47,349	2,428	12.948
	25.0	225.0	907.92	286.62	47,955	2,460	12.934
	25.4	228.4	903.65	290.96	48,582	2,491	12.921
	25.8	231.7	899.39	295.16	49,184	2,523	12.908
	26.2	235.1	895.15	299.49	49,804	2,554	12.895
	26.6	238.4	890.91	303.69	50,400	2,585	12.882
	27.0	241.7	886.68	307.90	50,995	2,615	12.869
	27.4	245.0	882.47	312.10	51,586	2,646	12.856
	27.8	248.3	878.26	316.31	52,176	2,676	12.843
	28.2	251.6	874.06	320.51	52,762	2,706	12.830
	28.6	254.9	869.87	324.71	53,345	2,736	12.817
	29.0	258.2	865.70	328.92	53,927	2,765	12.804
	29.4	261.5	861.53	333.12	54,505	2,795	12.791
	29.8	264.7	857.37	337.20	55,061	2,824	12.778
	30.2	268.0	853.23	341.40	55,635	2,853	12.765
	30.6	271.2	849.09	345.48	56,186	2,882	12.752
	31.0	274.5	844.96	349.68	56,754	2,910	12.739
	31.4	277.7	840.85	353.76	57,300	2,938	12.726
	31.8	280.9	836.74	357.83	57,843	2,966	12.714
	33.0	290.5	824.48	370.06	59,458	3,050	12.675
	35.0	306.4	804.25	390.32	62,085	3,184	12.611
	37.5	326.0	779.31	415.29	65,233	3,345	12.533
	40.0	345.3	754.77	439.87	68,235	3,499	12.454
	42.5	364.2	730.62	463.95	71,079	3,645	12.377
	45.0	382.9	706.86	487.77	73,806	3,785	12.300
	47.5	401.2	683.49	511.08	76,383	3,917	12.225
	50.0	419.3	660.52	534.14	78,852	4,043	12.150



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390	52.5	437.0	637.94	556.69	81,181	4,163	12.075
	55.0	454.4	615.75	578.85	83,391	4,276	12.002
	57.5	471.5	593.96	600.64	85,488	4,384	11.930
	60.0	488.3	572.55	622.04	87,474	4,486	11.858
	65.0	521.0	530.93	663.69	91,133	4,673	11.718
	70.0	552.4	490.87	703.69	94,382	4,840	11.581
	120.0	799.0	176.71	1,017.83	111,071	5,696	10.446
	130.0	833.6	132.73	1,061.91	112,164	5,752	10.277
394	5.9	56.5	1,147.28	71.97	13,553	688	13.722
	6.3	60.2	1,142.49	76.69	14,413	732	13.709
	6.7	64.0	1,137.70	81.53	15,292	776	13.695
	7.1	67.7	1,132.92	86.24	16,142	820	13.681
	7.5	71.5	1,128.15	91.08	17,014	864	13.667
	7.9	75.2	1,123.40	95.80	17,859	907	13.653
	8.3	79.0	1,118.65	100.64	18,723	950	13.639
	8.7	82.7	1,113.91	105.35	19,560	993	13.625
	9.1	86.4	1,109.18	110.06	20,393	1,035	13.612
	9.5	90.1	1,104.47	114.78	21,224	1,077	13.598
	9.9	93.8	1,099.76	119.49	22,051	1,119	13.584
	10.3	97.5	1,095.06	124.20	22,873	1,161	13.570
	10.7	101.1	1,090.37	128.79	23,671	1,202	13.557
	11.1	104.8	1,085.70	133.50	24,487	1,243	13.543
	11.5	108.5	1,081.03	138.22	25,301	1,284	13.529
	11.9	112.1	1,076.37	142.80	26,086	1,325	13.515
	12.3	115.8	1,071.72	147.52	26,894	1,365	13.502
	12.7	119.4	1,067.09	152.10	27,673	1,405	13.488
	13.1	123.1	1,062.46	156.82	28,474	1,445	13.474
	13.5	126.7	1,057.84	161.40	29,246	1,484	13.461
	13.9	130.3	1,053.24	165.99	30,017	1,524	13.447
	14.3	133.9	1,048.64	170.57	30,783	1,563	13.433
	14.7	137.5	1,044.05	175.16	31,547	1,601	13.420
	15.1	141.1	1,039.48	179.75	32,309	1,640	13.406
	15.5	144.7	1,034.91	184.33	33,065	1,678	13.393
	15.9	148.3	1,030.35	188.92	33,820	1,716	13.379
	16.3	151.8	1,025.81	193.38	34,548	1,754	13.366
	16.7	155.4	1,021.27	197.96	35,295	1,792	13.352
	17.1	158.9	1,016.74	202.42	36,017	1,829	13.339
	17.5	162.5	1,012.23	207.01	36,759	1,866	13.325
	17.9	166.0	1,007.72	211.46	37,474	1,903	13.312
	18.3	169.6	1,003.23	216.05	38,210	1,939	13.298

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394	18.7	173.1	998.74	220.51	38,920	1,975	13.285
	19.1	176.6	994.26	224.97	39,627	2,011	13.271
	19.8	182.7	986.45	232.74	40,851	2,074	13.248
	20.6	189.7	977.57	241.66	42,246	2,144	13.221
	21.4	196.6	968.72	250.45	43,606	2,214	13.195
	22.2	203.6	959.91	259.36	44,976	2,283	13.168
	23.0	210.4	951.15	268.03	46,292	2,350	13.141
	23.8	217.3	942.42	276.82	47,618	2,417	13.115
	24.6	224.1	933.74	285.48	48,910	2,483	13.089
	25.4	230.9	925.09	294.14	50,192	2,548	13.062
	26.2	237.7	916.48	302.80	51,462	2,612	13.036
	30.0	269.3	876.16	343.06	57,204	2,904	12.913
	34.9	309.1	825.50	393.76	64,070	3,252	12.755
	36.5	321.8	809.28	409.94	66,174	3,359	12.705
	40.0	349.2	774.37	444.84	70,572	3,582	12.595
	45.0	387.3	725.83	493.38	76,367	3,877	12.441
	48.0	409.6	697.46	521.78	79,584	4,040	12.350
	50.0	424.2	678.87	540.38	81,622	4,143	12.290
	55.0	459.8	633.47	585.73	86,356	4,384	12.142
	57.5	477.2	611.36	607.90	88,555	4,495	12.069
	60.0	494.2	589.65	629.55	90,621	4,600	11.997
	65.0	527.4	547.39	671.85	94,450	4,794	11.856
	70.0	559.3	506.71	712.48	97,856	4,968	11.719
400	15.1	143.3	1,074.05	182.55	33,858	1,693	13.618
401	55.0	469.3	665.08	597.83	91,723	4,575	12.386
	80.0	633.3	456.17	806.75	110,364	5,505	11.696
406	3.6	35.7	1,249.11	45.48	9,206	454	14.227
	4.0	39.7	1,244.10	50.57	10,216	503	14.213
	4.5	44.6	1,237.86	56.82	11,451	563	14.196
	5.0	49.4	1,231.63	62.93	12,651	624	14.178
	5.1	50.4	1,230.39	64.20	12,900	636	14.175
	5.6	55.3	1,224.18	70.45	14,121	696	14.157
	5.9	58.2	1,220.46	74.14	14,839	731	14.147
	6.0	59.2	1,219.22	75.41	15,085	743	14.143
	6.3	62.1	1,215.51	79.11	15,802	778	14.133
	6.4	63.1	1,214.27	80.38	16,048	790	14.129
	6.5	64.0	1,213.04	81.53	16,270	802	14.126
	6.7	66.0	1,210.57	84.08	16,762	825	14.119

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406	7.1	69.8	1,205.64	88.92	17,692	872	14.105
	7.3	71.8	1,203.18	91.46	18,179	895	14.098
	7.5	73.7	1,200.72	93.89	18,644	918	14.091
	7.9	77.6	1,195.82	98.85	19,590	965	14.077
	8.0	78.5	1,194.59	100.00	19,809	976	14.074
	8.3	81.4	1,190.92	103.69	20,509	1,010	14.063
	8.6	84.3	1,187.25	107.39	21,210	1,045	14.053
	8.7	85.2	1,186.03	108.54	21,426	1,056	14.049
	8.8	86.2	1,184.81	109.81	21,666	1,067	14.046
	9.0	88.1	1,182.37	112.23	22,122	1,090	14.039
	9.1	89.1	1,181.15	113.50	22,361	1,101	14.036
	9.2	90.0	1,179.93	114.65	22,577	1,113	14.032
	9.5	92.9	1,176.28	118.34	23,269	1,146	14.022
	9.7	94.8	1,173.85	120.76	23,721	1,169	14.015
	9.9	96.7	1,171.42	123.18	24,173	1,191	14.008
	10.0	97.7	1,170.21	124.46	24,412	1,202	14.005
	10.3	100.5	1,166.58	128.03	25,075	1,235	13.994
	10.7	104.3	1,161.74	132.87	25,972	1,280	13.981
	11.0	107.2	1,158.12	136.56	26,654	1,312	13.970
	11.1	108.1	1,156.91	137.71	26,865	1,323	13.967
	11.5	111.9	1,152.09	142.55	27,755	1,367	13.953
	11.6	112.8	1,150.89	143.69	27,963	1,378	13.950
	11.9	115.7	1,147.28	147.39	28,641	1,410	13.939
	12.3	119.4	1,142.49	152.10	29,498	1,453	13.926
	12.5	121.3	1,140.09	154.52	29,938	1,475	13.919
	12.7	123.2	1,137.70	156.94	30,377	1,496	13.912
	13.1	126.9	1,132.92	161.66	31,229	1,539	13.898
	13.4	129.7	1,129.34	165.22	31,870	1,570	13.888
	13.5	130.7	1,128.15	166.50	32,101	1,581	13.885
	13.8	133.5	1,124.58	170.06	32,739	1,613	13.874
	13.9	134.4	1,123.40	171.21	32,944	1,623	13.871
	14.2	137.2	1,119.83	174.78	33,582	1,654	13.861
	14.3	138.1	1,118.65	175.92	33,784	1,665	13.857
	14.7	141.9	1,113.91	180.76	34,645	1,706	13.844
	15.0	144.6	1,110.36	184.20	35,253	1,737	13.834
	15.1	145.6	1,109.18	185.48	35,480	1,747	13.830
	15.5	149.3	1,104.47	190.19	36,310	1,788	13.817
	15.9	153.0	1,099.76	194.90	37,136	1,829	13.803
	16.0	153.9	1,098.58	196.05	37,337	1,839	13.800
	16.3	156.7	1,095.06	199.62	37,961	1,869	13.790
	16.7	160.3	1,090.37	204.20	38,755	1,910	13.776

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
406	17.1	164.0	1,085.70	208.92	39,574	1,949	13.763
	17.5	167.7	1,081.03	213.63	40,386	1,989	13.749
	17.9	171.3	1,076.37	218.22	41,173	2,028	13.735
	18.0	172.2	1,075.21	219.36	41,368	2,038	13.732
	18.3	175.0	1,071.72	222.93	41,979	2,068	13.722
	19.1	182.2	1,062.46	232.10	43,535	2,145	13.695
	19.5	185.9	1,057.84	236.82	44,333	2,183	13.682
	19.8	188.6	1,054.39	240.25	44,909	2,212	13.672
	20.0	190.4	1,052.09	242.55	45,295	2,231	13.665
	20.6	195.8	1,045.20	249.43	46,443	2,288	13.645
	21.4	203.0	1,036.05	258.60	47,962	2,362	13.618
	22.2	210.1	1,026.94	267.64	49,445	2,436	13.592
	22.6	213.7	1,022.40	272.23	50,195	2,473	13.578
	23.0	217.2	1,017.88	276.69	50,917	2,509	13.565
	23.4	220.8	1,013.36	281.27	51,659	2,545	13.552
	23.8	224.3	1,008.85	285.73	52,376	2,580	13.539
	24.6	231.4	999.86	294.78	53,824	2,651	13.512
	25.0	234.9	995.38	299.24	54,531	2,686	13.499
	25.4	238.4	990.91	303.69	55,234	2,721	13.486
	26.2	245.4	982.01	312.61	56,635	2,790	13.459
	26.3	246.3	980.90	313.76	56,816	2,798	13.456
	26.6	248.9	977.57	317.07	57,331	2,824	13.446
	27.0	252.4	973.14	321.53	58,024	2,858	13.433
	28.6	266.2	955.53	339.11	60,721	2,991	13.381
	29.4	273.1	946.78	347.90	62,053	3,056	13.355
	30.2	279.9	938.07	356.56	63,351	3,121	13.329
	30.6	283.3	933.74	360.89	63,996	3,152	13.316
	31.8	293.5	920.78	373.89	65,915	3,247	13.277
	33.3	306.1	904.72	389.94	68,246	3,362	13.229
	34.9	319.4	887.74	406.88	70,661	3,481	13.178
	35.7	326.0	879.31	415.29	71,843	3,539	13.152
	36.5	332.6	870.92	423.69	73,014	3,597	13.127
	38.1	345.7	854.26	440.38	75,306	3,709	13.076
	39.1	353.8	843.93	450.70	76,700	3,778	13.045
	40.0	361.1	834.69	460.00	77,945	3,839	13.017
	42.5	381.0	809.28	485.35	81,259	4,003	12.939
	43.7	390.5	797.23	497.45	82,807	4,079	12.902
	45.0	400.6	784.27	510.32	84,424	4,159	12.862
	47.5	420.0	759.64	535.03	87,463	4,308	12.785
	50.0	439.0	735.41	559.24	90,342	4,450	12.709
	52.5	457.7	711.58	583.06	93,084	4,585	12.635

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406	55.0	476.1	688.13	606.50	95,695	4,714	12.561
	57.5	494.2	665.08	629.55	98,177	4,836	12.487
	60.0	512.0	642.42	652.23	100,538	4,952	12.415
	65.0	546.6	598.28	696.31	104,887	5,167	12.273
	70.0	580.1	555.72	738.98	108,811	5,360	12.134
	73.0	599.5	530.93	763.69	110,943	5,465	12.052
	75.0	612.2	514.72	779.87	112,288	5,532	11.999
	80.0	643.2	475.29	819.36	115,403	5,685	11.867
	82.5	658.2	456.17	838.47	116,818	5,754	11.803
410	5.1	50.9	1,255.38	64.84	13,290	649	14.316
	5.6	55.9	1,249.11	71.21	14,560	710	14.299
	5.9	58.8	1,245.35	74.90	15,292	746	14.288
	6.4	63.7	1,239.10	81.15	16,528	806	14.271
	6.7	66.6	1,235.36	84.84	17,254	842	14.260
	7.1	70.5	1,230.39	89.81	18,229	890	14.246
	7.5	74.4	1,225.42	94.78	19,200	937	14.232
	7.9	78.3	1,220.46	99.75	20,168	984	14.219
	8.3	82.2	1,215.51	104.71	21,129	1,031	14.205
	8.7	86.1	1,210.57	109.68	22,089	1,078	14.191
	9.0	89.0	1,206.87	113.38	22,801	1,112	14.181
	9.1	90.0	1,205.64	114.65	23,045	1,124	14.177
	9.5	93.8	1,200.72	119.49	23,971	1,170	14.163
	9.9	97.7	1,195.82	124.46	24,920	1,215	14.150
	10.3	101.5	1,190.92	129.30	25,838	1,261	14.136
	10.7	105.4	1,186.03	134.27	26,779	1,306	14.122
	11.0	108.2	1,182.37	137.83	27,449	1,340	14.112
	11.5	113.0	1,176.28	143.95	28,598	1,395	14.094
	11.9	116.8	1,171.42	148.79	29,502	1,440	14.081
	12.3	120.6	1,166.58	153.63	30,403	1,484	14.067
	12.7	124.4	1,161.74	158.47	31,300	1,527	14.053
	13.1	128.2	1,156.91	163.31	32,193	1,571	14.040
	13.5	132.0	1,152.09	168.15	33,082	1,614	14.026
	14.3	139.6	1,142.49	177.83	34,851	1,699	13.999
	15.1	147.1	1,132.92	187.39	36,582	1,784	13.972
	15.9	154.5	1,123.40	196.82	38,274	1,867	13.944
	16.7	162.0	1,113.91	206.37	39,975	1,950	13.917
	17.5	169.4	1,104.47	215.80	41,639	2,031	13.890
	18.3	176.8	1,095.06	225.22	43,288	2,111	13.863
	19.1	184.1	1,085.70	234.52	44,901	2,191	13.836
	19.8	190.5	1,077.54	242.68	46,306	2,259	13.813

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410	20.6	197.8	1,068.25	251.97	47,892	2,337	13.786
	21.4	205.1	1,059.00	261.27	49,468	2,413	13.759
	22.2	212.3	1,049.79	270.45	51,007	2,488	13.733
	23.0	219.5	1,040.62	279.62	52,533	2,563	13.706
	23.8	226.7	1,031.49	288.79	54,046	2,636	13.680
	24.6	233.8	1,022.40	297.83	55,522	2,709	13.653
	25.4	240.9	1,013.36	306.88	56,988	2,780	13.627
	27.0	255.0	995.38	324.84	59,859	2,920	13.574
	28.6	269.0	977.57	342.68	62,661	3,057	13.522
	29.4	276.0	968.72	351.59	64,042	3,124	13.496
	30.2	282.9	959.91	360.38	65,391	3,189	13.470
	31.8	296.6	942.42	377.83	68,031	3,319	13.418
	33.3	309.4	926.17	394.14	70,458	3,437	13.370
	34.9	322.9	908.99	411.34	72,971	3,559	13.319
	36.5	336.2	891.97	428.28	75,396	3,678	13.268
	38.1	349.4	875.11	445.10	77,760	3,794	13.217
	40.0	365.0	855.30	464.97	80,498	3,927	13.157
	42.5	385.2	829.58	490.70	83,948	4,095	13.079
	45.0	405.1	804.25	516.05	87,245	4,255	13.002
	47.5	424.6	779.31	540.89	90,371	4,409	12.925
	50.0	443.9	754.77	565.48	93,375	4,555	12.850
	52.5	462.9	730.62	589.68	96,238	4,694	12.775
	55.0	481.5	706.86	613.38	98,946	4,827	12.700
	57.5	499.9	683.49	636.82	101,543	4,953	12.627
	60.0	517.9	660.52	659.75	103,993	5,073	12.554
	62.5	535.6	637.94	682.29	106,320	5,187	12.483
	65.0	553.0	615.75	704.46	108,531	5,295	12.412
	67.5	570.2	593.96	726.37	110,647	5,397	12.342
	70.0	587.0	572.55	747.77	112,633	5,494	12.272
415	3.6	36.5	1,306.12	46.50	9,838	474	14.545
	4.0	40.5	1,301.00	51.59	10,894	526	14.531
	4.5	45.6	1,294.62	58.09	12,237	589	14.513
	5.1	51.6	1,286.98	65.73	13,807	665	14.493
	5.6	56.5	1,280.63	71.97	15,081	727	14.475
	5.9	59.5	1,276.82	75.80	15,861	765	14.465
	6.4	64.5	1,270.50	82.17	17,152	826	14.447
	6.7	67.5	1,266.71	85.99	17,924	863	14.437
	7.1	71.4	1,261.67	90.96	18,923	912	14.423
	7.5	75.4	1,256.64	96.05	19,944	961	14.409
	7.9	79.3	1,251.61	101.02	20,935	1,009	14.395

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415	8.3	83.2	1,246.60	105.99	21,923	1,057	14.381
	8.7	87.2	1,241.60	111.08	22,932	1,105	14.368
	9.1	91.1	1,236.61	116.05	23,912	1,152	14.354
	9.5	95.0	1,231.63	121.02	24,888	1,199	14.340
	9.9	98.9	1,226.66	125.99	25,860	1,246	14.326
	10.3	102.8	1,221.70	130.96	26,828	1,293	14.312
	10.7	106.7	1,216.75	135.92	27,791	1,339	14.299
	11.1	110.6	1,211.80	140.89	28,752	1,385	14.285
	11.5	114.4	1,206.87	145.73	29,682	1,431	14.271
	11.9	118.3	1,201.95	150.70	30,636	1,476	14.258
	12.3	122.2	1,197.04	155.67	31,585	1,522	14.244
	12.7	126.0	1,192.14	160.51	32,505	1,566	14.230
	13.1	129.8	1,187.25	165.35	33,420	1,611	14.216
	13.5	133.7	1,182.37	170.32	34,359	1,655	14.203
	14.3	141.3	1,172.64	180.00	36,172	1,743	14.175
	15.1	148.9	1,162.95	189.68	37,971	1,830	14.148
	15.9	156.5	1,153.30	199.36	39,756	1,916	14.121
	16.7	164.0	1,143.68	208.92	41,502	2,001	14.094
	17.5	171.6	1,134.11	218.60	43,259	2,084	14.067
	18.3	179.0	1,124.58	228.03	44,952	2,167	14.040
	19.1	186.5	1,115.09	237.58	46,655	2,248	14.013
	19.8	193.0	1,106.82	245.86	48,119	2,319	13.989
	20.6	200.4	1,097.41	255.29	49,774	2,398	13.963
	21.4	207.7	1,088.03	264.59	51,390	2,477	13.936
	22.2	215.1	1,078.70	274.01	53,016	2,554	13.909
	23.0	222.4	1,069.41	283.31	54,606	2,631	13.883
	23.8	229.6	1,060.15	292.48	56,158	2,707	13.856
	24.6	236.8	1,050.94	301.66	57,699	2,781	13.830
	25.4	244.1	1,041.76	310.96	59,251	2,855	13.803
	27.0	258.4	1,023.54	329.17	62,243	2,999	13.751
	28.6	272.5	1,005.47	347.13	65,140	3,140	13.698
	29.4	279.6	996.50	356.18	66,584	3,209	13.672
	30.2	286.6	987.57	365.10	67,992	3,277	13.646
	31.8	300.5	969.82	382.80	70,748	3,410	13.594
	33.3	313.5	953.34	399.36	73,284	3,531	13.546
	34.9	327.2	935.90	416.82	75,910	3,658	13.495
	36.5	340.7	918.63	434.01	78,444	3,781	13.444
	38.1	354.1	901.52	451.08	80,915	3,900	13.393
	40.0	369.9	881.41	471.21	83,772	4,037	13.333
	42.5	390.4	855.30	497.32	87,381	4,211	13.255
	45.0	410.6	829.58	523.06	90,833	4,378	13.177

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415	47.5	430.5	804.25	548.41	94,129	4,536	13.101
	50.0	450.1	779.31	573.38	97,278	4,688	13.025
	55.0	488.3	730.62	622.04	103,123	4,970	12.875
419	3.2	32.8	1,337.05	41.78	9,030	431	14.701
	3.6	36.9	1,331.87	47.01	10,141	484	14.687
	4.0	40.9	1,326.70	52.10	11,217	536	14.673
	4.5	46.0	1,320.25	58.60	12,587	601	14.655
	5.1	52.1	1,312.54	66.37	14,215	678	14.634
	5.6	57.1	1,306.12	72.74	15,542	742	14.617
	5.9	60.1	1,302.28	76.56	16,335	780	14.606
	6.4	65.1	1,295.89	82.93	17,652	843	14.589
	6.7	68.1	1,292.07	86.75	18,438	880	14.578
	7.1	72.1	1,286.98	91.85	19,485	930	14.564
	7.5	76.1	1,281.89	96.94	20,526	980	14.551
	7.9	80.1	1,276.82	102.04	21,564	1,029	14.537
	8.3	84.1	1,271.76	107.13	22,597	1,078	14.523
	8.7	88.0	1,266.71	112.10	23,600	1,127	14.509
	9.1	92.0	1,261.67	117.20	24,627	1,175	14.495
	9.5	95.9	1,256.64	122.17	25,622	1,223	14.481
	9.9	99.9	1,251.61	127.26	26,639	1,271	14.468
	10.3	103.8	1,246.60	132.23	27,626	1,319	14.454
	10.7	107.7	1,241.60	137.20	28,610	1,366	14.440
	11.1	111.7	1,236.61	142.29	29,615	1,413	14.426
	11.5	115.6	1,231.63	147.26	30,591	1,460	14.413
	11.9	119.5	1,226.66	152.23	31,563	1,506	14.399
	12.3	123.4	1,221.70	157.20	32,532	1,552	14.385
	12.7	127.3	1,216.75	162.17	33,496	1,598	14.371
	13.1	131.1	1,211.80	167.01	34,430	1,644	14.358
	13.5	135.0	1,206.87	171.97	35,386	1,689	14.344
	14.3	142.7	1,197.04	181.78	37,262	1,779	14.317
	15.1	150.4	1,187.25	191.59	39,123	1,868	14.289
	15.9	158.1	1,177.50	201.40	40,970	1,955	14.262
	16.7	165.7	1,167.79	211.08	42,776	2,042	14.235
	17.5	173.3	1,158.12	220.76	44,568	2,127	14.208
	18.3	180.8	1,148.48	230.32	46,322	2,212	14.181
	19.1	188.4	1,138.89	240.00	48,085	2,295	14.154
	19.8	194.9	1,130.54	248.28	49,579	2,367	14.131
	20.6	202.4	1,121.02	257.83	51,291	2,448	14.104
	21.4	209.8	1,111.55	267.26	52,965	2,529	14.077
	22.2	217.2	1,102.11	276.69	54,627	2,608	14.050

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419	23.0	224.6	1,092.72	286.11	56,272	2,686	14.024
	23.8	232.0	1,083.36	295.54	57,907	2,764	13.997
	25.4	246.6	1,064.77	314.14	61,087	2,915	13.944
	26.4	255.6	1,053.24	325.61	63,018	3,008	13.911
	27.0	261.0	1,046.35	332.48	64,166	3,063	13.892
	28.6	275.4	1,028.08	350.83	67,197	3,207	13.839
	29.4	282.5	1,019.01	359.87	68,669	3,278	13.813
	30.2	289.6	1,009.97	368.92	70,131	3,347	13.787
	31.8	303.7	992.03	386.88	72,992	3,484	13.735
	33.3	316.8	975.35	403.57	75,606	3,608	13.687
	34.9	330.6	957.72	421.15	78,308	3,738	13.635
	36.5	344.3	940.25	438.60	80,943	3,864	13.584
	38.1	357.9	922.94	455.92	83,511	3,986	13.534
	40.0	373.9	902.59	476.31	86,475	4,127	13.474
	42.5	394.6	876.16	502.68	90,205	4,306	13.395
	45.0	415.1	850.12	528.79	93,795	4,477	13.318
	50.0	455.0	799.23	579.62	100,463	4,795	13.165
	55.0	493.7	749.91	628.92	106,540	5,086	13.015
	60.0	531.2	702.15	676.69	112,061	5,349	12.868
	65.0	567.5	655.97	722.93	117,061	5,587	12.725
426	70.0	602.5	611.36	767.52	121,557	5,802	12.584
	75.0	636.3	568.32	810.57	125,599	5,995	12.447
	80.0	668.8	526.85	851.97	129,202	6,167	12.314
	3.6	37.5	1,377.54	47.77	10,655	500	14.934
	5.0	51.9	1,359.18	66.11	14,649	688	14.885
	5.6	58.1	1,351.35	74.01	16,353	767	14.864
	5.9	61.1	1,347.44	77.83	17,173	807	14.854
	6.0	62.1	1,346.14	79.11	17,447	820	14.850
	6.3	65.2	1,342.24	83.06	18,293	859	14.840
	6.4	66.2	1,340.94	84.33	18,564	872	14.836
	6.7	69.3	1,337.05	88.28	19,406	911	14.826
	7.0	72.3	1,333.17	92.10	20,217	950	14.815
	7.1	73.3	1,331.87	93.38	20,488	962	14.812
	7.5	77.4	1,326.70	98.60	21,593	1,014	14.798
	7.9	81.5	1,321.54	103.82	22,694	1,065	14.784
	8.0	82.5	1,320.25	105.10	22,963	1,078	14.781
	8.3	85.5	1,316.39	108.92	23,764	1,116	14.770
	8.7	89.5	1,311.25	114.01	24,828	1,166	14.757
	8.8	90.5	1,309.97	115.29	25,095	1,179	14.753
	9.0	92.6	1,307.40	117.96	25,652	1,204	14.746

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Technical data of tubes

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426	9.1	93.6	1,306.12	119.24	25,918	1,216	14.743
	9.5	97.6	1,301.00	124.33	26,974	1,266	14.729
	9.9	101.6	1,295.89	129.43	28,028	1,316	14.715
	10.0	102.6	1,294.62	130.70	28,289	1,328	14.711
	10.3	105.6	1,290.79	134.52	29,075	1,365	14.701
	10.7	109.6	1,285.70	139.62	30,121	1,414	14.687
	11.1	113.6	1,280.63	144.71	31,161	1,463	14.674
	11.5	117.6	1,275.56	149.81	32,198	1,511	14.660
	11.9	121.5	1,270.50	154.78	33,204	1,559	14.646
	12.3	125.5	1,265.45	159.87	34,232	1,607	14.632
	12.7	129.4	1,260.41	164.84	35,230	1,655	14.619
	13.1	133.4	1,255.38	169.94	36,252	1,702	14.605
	13.5	137.3	1,250.36	174.90	37,240	1,749	14.591
	13.9	141.3	1,245.35	180.00	38,254	1,796	14.578
	14.3	145.2	1,240.35	184.97	39,237	1,842	14.564
	14.7	149.1	1,235.36	189.94	40,216	1,888	14.550
	15.1	153.0	1,230.39	194.90	41,189	1,934	14.537
	15.5	156.9	1,225.42	199.87	42,160	1,980	14.523
	15.9	160.8	1,220.46	204.84	43,128	2,025	14.510
	16.3	164.7	1,215.51	209.81	44,092	2,070	14.496
	16.7	168.6	1,210.57	214.78	45,052	2,115	14.483
	17.5	176.3	1,200.72	224.59	46,933	2,203	14.455
	18.3	184.0	1,190.92	234.39	48,798	2,291	14.428
	19.1	191.7	1,181.15	244.20	50,651	2,378	14.401
	19.8	198.4	1,172.64	252.74	52,251	2,452	14.378
	20.6	206.0	1,162.95	262.42	54,050	2,537	14.351
	21.4	213.5	1,153.30	271.97	55,808	2,621	14.324
	22.2	221.1	1,143.68	281.66	57,581	2,703	14.298
	23.0	228.6	1,134.11	291.21	59,311	2,784	14.271
	23.8	236.1	1,124.58	300.76	61,028	2,865	14.244
	24.6	243.5	1,115.09	310.19	62,708	2,944	14.218
	25.4	250.9	1,105.64	319.62	64,374	3,023	14.191
	27.0	265.7	1,086.86	338.47	67,664	3,176	14.138
	28.6	280.3	1,068.25	357.07	70,854	3,326	14.086
	29.4	287.6	1,059.00	366.37	72,429	3,400	14.060
	30.2	294.8	1,049.79	375.54	73,967	3,472	14.034
	31.8	309.2	1,031.49	393.89	77,008	3,615	13.982
	33.3	322.5	1,014.49	410.83	79,764	3,745	13.933
	34.9	336.6	996.50	428.79	82,637	3,880	13.882
	36.5	350.6	978.68	446.62	85,440	4,011	13.831
	38.1	364.5	961.01	464.33	88,175	4,139	13.780

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426	40.0	380.8	940.25	485.10	91,318	4,287	13.720
	45.0	422.8	886.68	538.60	99,093	4,652	13.564
	50.0	463.6	834.69	590.57	106,211	4,987	13.410
	55.0	503.2	784.27	641.02	112,712	5,292	13.260
	60.0	541.6	735.41	689.94	118,632	5,569	13.112
	65.0	578.7	688.13	737.20	123,984	5,821	12.968
	70.0	614.6	642.42	782.93	128,827	6,048	12.827
	75.0	649.2	598.28	827.01	133,176	6,252	12.689
	80.0	682.6	555.72	869.55	137,080	6,436	12.555
431	3.2	33.8	1,415.96	43.06	9,851	457	15.125
	3.6	37.9	1,410.62	48.28	11,025	512	15.111
	4.0	42.1	1,405.30	53.63	12,224	568	15.097
	4.5	47.3	1,398.67	60.25	13,701	636	15.079
	5.1	53.6	1,390.72	68.28	15,484	718	15.058
	5.6	58.8	1,384.12	74.90	16,946	786	15.041
	5.9	61.9	1,380.17	78.85	17,815	826	15.031
	6.4	67.0	1,373.59	85.35	19,239	893	15.013
	6.7	70.1	1,369.65	89.30	20,101	933	15.003
	7.1	74.2	1,364.41	94.52	21,236	986	14.989
	7.5	78.3	1,359.18	99.75	22,370	1,038	14.975
	7.9	82.4	1,353.95	104.97	23,497	1,091	14.961
	8.3	86.5	1,348.74	110.19	24,620	1,143	14.947
	8.7	90.6	1,343.54	115.41	25,738	1,194	14.933
	9.1	94.7	1,338.35	120.64	26,855	1,246	14.919
	9.5	98.8	1,333.17	125.86	27,965	1,297	14.906
	9.9	102.8	1,327.99	130.96	29,044	1,348	14.892
	10.3	106.9	1,322.83	136.18	30,146	1,398	14.878
	10.7	110.9	1,317.68	141.27	31,215	1,449	14.864
	11.1	114.9	1,312.54	146.37	32,282	1,499	14.850
	11.5	119.0	1,307.40	151.59	33,371	1,548	14.837
	11.9	123.0	1,302.28	156.69	34,430	1,598	14.823
	12.3	127.0	1,297.17	161.78	35,483	1,647	14.809
	12.7	131.0	1,292.07	166.88	36,533	1,695	14.795
	13.1	135.0	1,286.98	171.97	37,578	1,744	14.782
	13.5	139.0	1,281.89	177.07	38,621	1,792	14.768
	14.3	147.0	1,271.76	187.26	40,692	1,888	14.741
	15.1	154.9	1,261.67	197.32	42,720	1,982	14.713
	15.9	162.8	1,251.61	207.39	44,734	2,075	14.686
	17.5	178.5	1,231.63	227.39	48,687	2,259	14.632
	18.3	186.3	1,221.70	237.32	50,625	2,349	14.605

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431	19.1	194.0	1,211.80	247.13	52,523	2,438	14.578
	19.8	200.8	1,203.18	255.80	54,190	2,514	14.554
	20.6	208.5	1,193.36	265.61	56,061	2,601	14.528
	21.4	216.2	1,183.59	275.41	57,915	2,687	14.501
	22.2	223.8	1,173.85	285.10	59,732	2,772	14.474
	23.0	231.4	1,164.16	294.78	61,533	2,856	14.447
	23.8	239.0	1,154.50	304.46	63,319	2,938	14.421
	24.6	246.6	1,144.88	314.14	65,092	3,020	14.394
	25.4	254.1	1,135.31	323.69	66,824	3,101	14.368
	27.0	269.0	1,116.28	342.68	70,226	3,259	14.315
	28.6	283.8	1,097.41	361.53	73,546	3,413	14.262
	29.4	291.2	1,088.03	370.96	75,188	3,489	14.236
	30.2	298.5	1,078.70	380.25	76,788	3,563	14.210
	31.8	313.1	1,060.15	398.85	79,955	3,710	14.158
	33.3	326.6	1,042.91	416.05	82,833	3,844	14.110
	34.9	340.9	1,024.67	434.27	85,830	3,983	14.058
	36.5	355.1	1,006.60	452.36	88,754	4,119	14.007
	38.1	369.2	988.68	470.32	91,608	4,251	13.956
	40.0	385.7	967.62	491.34	94,878	4,403	13.896
	42.5	407.2	940.25	518.73	99,038	4,596	13.817
	45.0	428.4	913.27	545.73	103,021	4,780	13.739
	47.5	449.2	886.68	572.23	106,813	4,957	13.662
	50.0	469.8	860.49	598.47	110,463	5,126	13.585
	52.5	490.1	834.69	624.33	113,955	5,287	13.510
	55.0	510.0	809.28	649.68	117,268	5,442	13.435
	57.5	529.6	784.27	674.65	120,432	5,589	13.360
	60.0	549.0	759.64	699.36	123,473	5,729	13.287
	70.0	623.2	665.08	793.89	134,188	6,227	13.000
434	4.0	42.4	1,425.31	54.01	12,484	576	15.203
437	36.5	360.5	1,040.62	459.24	92,843	4,249	14.218
	37.0	365.0	1,034.91	464.97	93,790	4,292	14.202
	41.1	401.3	988.68	511.21	101,236	4,633	14.072
	60.0	557.9	789.24	710.70	129,462	5,924	13.496
	70.0	633.6	692.79	807.13	140,833	6,445	13.209
445	3.6	39.2	1,505.36	49.94	12,163	546	15.606
	4.0	43.5	1,499.87	55.41	13,471	606	15.592
	4.5	48.9	1,493.01	62.29	15,110	679	15.574
	5.1	55.3	1,484.80	70.45	17,043	766	15.553



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445	5.6	60.7	1,477.98	77.32	18,663	839	15.536
	5.9	63.9	1,473.89	81.40	19,622	882	15.526
	6.3	68.2	1,468.46	86.88	20,905	939	15.511
	6.7	72.4	1,463.03	92.23	22,153	996	15.498
	7.1	76.7	1,457.61	97.71	23,427	1,053	15.484
	7.5	80.9	1,452.20	103.06	24,665	1,109	15.470
	7.9	85.2	1,446.80	108.54	25,930	1,165	15.456
	8.7	93.6	1,436.03	119.24	28,384	1,276	15.428
	9.1	97.8	1,430.67	124.59	29,604	1,331	15.414
	9.5	102.0	1,425.31	129.94	30,820	1,386	15.400
	9.9	106.2	1,419.96	135.29	32,032	1,440	15.387
	10.3	110.4	1,414.62	140.64	33,239	1,494	15.373
	10.7	114.6	1,409.29	145.99	34,441	1,548	15.359
	11.1	118.8	1,403.98	151.34	35,639	1,601	15.345
	11.5	122.9	1,398.67	156.56	36,802	1,655	15.331
	11.9	127.1	1,393.37	161.91	37,992	1,708	15.318
	12.3	131.3	1,388.08	167.26	39,177	1,760	15.304
	12.7	135.4	1,382.80	172.48	40,327	1,812	15.290
	13.1	139.5	1,377.54	177.71	41,475	1,864	15.276
	13.5	143.7	1,372.28	183.06	42,647	1,916	15.263
	14.3	151.9	1,361.79	193.50	44,918	2,019	15.235
	15.1	160.1	1,351.35	203.95	47,174	2,120	15.208
	15.9	168.3	1,340.94	214.39	49,411	2,220	15.181
	16.7	176.4	1,330.58	224.71	51,605	2,319	15.154
	17.5	184.5	1,320.25	235.03	53,781	2,417	15.126
	18.3	192.6	1,309.97	245.35	55,942	2,514	15.099
	19.1	200.6	1,299.72	255.54	58,057	2,610	15.072
	19.8	207.6	1,290.79	264.46	59,896	2,692	15.049
	20.6	215.6	1,280.63	274.65	61,982	2,786	15.022
	21.4	223.6	1,270.50	284.84	64,052	2,878	14.995
	22.2	231.5	1,260.41	294.90	66,077	2,970	14.968
	23.0	239.4	1,250.36	304.97	68,090	3,060	14.942
	23.8	247.2	1,240.35	314.90	70,056	3,149	14.915
	24.6	255.1	1,230.39	324.97	72,038	3,237	14.888
	25.4	262.8	1,220.46	334.78	73,948	3,324	14.862
	27.0	278.3	1,200.72	354.52	77,752	3,495	14.809
	28.6	293.7	1,181.15	374.14	81,472	3,662	14.756
	29.4	301.3	1,171.42	383.82	83,283	3,743	14.730
	30.2	308.9	1,161.74	393.50	85,080	3,824	14.704
	31.8	324.1	1,142.49	412.87	88,636	3,983	14.652
	33.3	338.1	1,124.58	430.70	91,850	4,128	14.603

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445	34.9	353.0	1,105.64	449.68	95,220	4,279	14.551
	36.5	367.7	1,086.86	468.41	98,486	4,426	14.500
	38.1	382.3	1,068.25	487.01	101,675	4,570	14.449
	40.0	399.5	1,046.35	508.92	105,362	4,736	14.388
	42.5	421.9	1,017.88	537.45	110,051	4,946	14.309
	45.0	443.9	989.80	565.48	114,527	5,147	14.231
	47.5	465.6	962.11	593.12	118,819	5,341	14.153
	50.0	487.1	934.82	620.51	122,958	5,526	14.076
	52.5	508.2	907.92	647.39	126,899	5,703	14.000
	55.0	529.0	881.41	673.89	130,671	5,873	13.925
	57.5	549.5	855.30	700.00	134,280	6,035	13.850
	60.0	569.7	829.58	725.73	137,730	6,190	13.776
	65.0	609.2	779.31	776.05	144,176	6,479	13.630
	70.0	647.4	730.62	824.71	150,020	6,742	13.487
452	21.0	223.2	1,320.25	284.33	66,179	2,928	15.256
	35.0	359.9	1,146.08	458.47	100,356	4,441	14.795
457	3.2	35.8	1,594.67	45.61	11,741	514	16.044
	4.5	50.2	1,576.32	63.95	16,369	717	15.998
	5.0	55.7	1,569.29	70.96	18,124	794	15.981
	5.1	56.8	1,567.89	72.36	18,473	809	15.977
	5.6	62.3	1,560.88	79.36	20,216	885	15.960
	5.9	65.6	1,556.68	83.57	21,261	931	15.950
	6.0	66.7	1,555.28	84.97	21,608	946	15.946
	6.3	70.0	1,551.09	89.17	22,646	991	15.936
	6.4	71.1	1,549.70	90.57	22,991	1,007	15.932
	6.5	72.2	1,548.30	91.97	23,337	1,022	15.929
	6.7	74.4	1,545.51	94.78	24,029	1,052	15.922
	7.1	78.8	1,539.94	100.38	25,404	1,111	15.908
	7.3	81.0	1,537.16	103.18	26,090	1,141	15.901
	7.5	83.1	1,534.38	105.86	26,744	1,171	15.894
	7.7	85.3	1,531.61	108.66	27,427	1,201	15.887
	7.9	87.5	1,528.83	111.46	28,109	1,230	15.880
	8.0	88.6	1,527.45	112.87	28,452	1,245	15.876
	8.1	89.7	1,526.06	114.27	28,793	1,260	15.873
	8.2	90.8	1,524.68	115.67	29,133	1,274	15.870
	8.3	91.8	1,523.30	116.94	29,440	1,289	15.866
	8.5	94.0	1,520.53	119.75	30,121	1,318	15.859
	8.6	95.1	1,519.15	121.15	30,460	1,333	15.856
	8.7	96.2	1,517.77	122.55	30,798	1,348	15.852

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457	8.8	97.3	1,516.39	123.95	31,136	1,362	15.849
	9.0	99.4	1,513.63	126.62	31,779	1,391	15.842
	9.1	100.5	1,512.25	128.03	32,119	1,406	15.838
	9.4	103.8	1,508.11	132.23	33,129	1,449	15.828
	9.5	104.8	1,506.74	133.50	33,433	1,464	15.825
	9.8	108.1	1,502.61	137.71	34,442	1,507	15.814
	9.9	109.2	1,501.24	139.11	34,777	1,521	15.811
	10.0	110.2	1,499.87	140.38	35,079	1,536	15.807
	10.1	111.3	1,498.49	141.78	35,413	1,550	15.804
	10.3	113.5	1,495.75	144.59	36,084	1,579	15.797
	10.7	117.8	1,490.27	150.06	37,383	1,636	15.783
	11.0	121.0	1,486.17	154.14	38,349	1,678	15.773
	11.1	122.1	1,484.80	155.54	38,681	1,692	15.769
	11.5	126.3	1,479.34	160.89	39,941	1,749	15.755
	11.8	129.6	1,475.26	165.10	40,933	1,791	15.745
	11.9	130.6	1,473.89	166.37	41,230	1,805	15.742
	12.0	131.7	1,472.53	167.77	41,559	1,819	15.738
	12.3	134.9	1,468.46	171.85	42,513	1,860	15.728
	12.5	137.0	1,465.74	174.52	43,136	1,888	15.721
	12.7	139.2	1,463.03	177.32	43,790	1,916	15.714
	13.0	142.3	1,458.96	181.27	44,707	1,957	15.704
	13.1	143.4	1,457.61	182.68	45,035	1,971	15.701
	13.5	147.7	1,452.20	188.15	46,302	2,026	15.687
	13.9	151.9	1,446.80	193.50	47,536	2,080	15.673
	14.0	153.0	1,445.45	194.90	47,859	2,094	15.670
	14.3	156.1	1,441.41	198.85	48,765	2,134	15.659
	14.7	160.3	1,436.03	204.20	49,990	2,188	15.646
	15.1	164.6	1,430.67	209.68	51,241	2,242	15.632
	15.5	168.8	1,425.31	215.03	52,457	2,295	15.618
	15.9	173.0	1,419.96	220.38	53,669	2,348	15.605
	16.0	174.0	1,418.62	221.66	53,957	2,361	15.601
	16.3	177.2	1,414.62	225.73	54,876	2,401	15.591
	16.7	181.3	1,409.29	230.96	56,049	2,453	15.578
	17.1	185.5	1,403.98	236.31	57,247	2,505	15.564
	17.5	189.7	1,398.67	241.66	58,441	2,557	15.550
	17.8	192.8	1,394.69	245.61	59,319	2,596	15.540
	18.3	198.0	1,388.08	252.23	60,785	2,660	15.523
	18.7	202.1	1,382.80	257.45	61,935	2,711	15.510
	19.1	206.3	1,377.54	262.80	63,112	2,762	15.496
	19.5	210.4	1,372.28	268.03	64,256	2,812	15.483
	19.8	213.5	1,368.34	271.97	65,115	2,850	15.473

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
457	20.0	215.5	1,365.72	274.52	65,668	2,874	15.466
	20.3	218.6	1,361.79	278.47	66,526	2,912	15.456
	20.6	221.7	1,357.87	282.42	67,382	2,949	15.446
	21.4	229.9	1,347.44	292.87	69,632	3,047	15.419
	22.2	238.1	1,337.05	303.31	71,863	3,144	15.392
	23.0	246.2	1,326.70	313.63	74,050	3,240	15.365
	23.8	254.3	1,316.39	323.95	76,221	3,335	15.339
	24.6	262.3	1,306.12	334.14	78,345	3,429	15.312
	25.0	266.3	1,301.00	339.24	79,403	3,476	15.299
	25.4	270.4	1,295.89	344.46	80,485	3,522	15.285
	27.0	286.3	1,275.56	364.71	84,626	3,704	15.232
	27.5	291.3	1,269.23	371.08	85,917	3,760	15.216
	28.0	296.2	1,262.93	377.32	87,173	3,815	15.199
	28.6	302.2	1,255.38	384.97	88,709	3,882	15.179
	29.4	310.0	1,245.35	394.90	90,682	3,969	15.153
	30.2	317.9	1,235.36	404.97	92,672	4,055	15.127
	31.8	333.5	1,215.51	424.84	96,548	4,225	15.075
	33.3	348.0	1,197.04	443.31	100,094	4,380	15.026
	34.9	363.3	1,177.50	462.80	103,775	4,542	14.974
	35.5	369.0	1,170.21	470.06	105,130	4,601	14.954
	36.5	378.5	1,158.12	482.17	107,375	4,699	14.922
	38.1	393.6	1,138.89	501.40	110,890	4,853	14.871
	40.0	411.4	1,116.28	524.08	114,963	5,031	14.810
	42.5	434.5	1,086.86	553.50	120,121	5,256	14.731
	45.0	457.2	1,057.84	582.42	125,052	5,473	14.653
	47.5	479.7	1,029.22	611.08	129,814	5,681	14.575
	50.0	501.9	1,000.98	639.36	134,385	5,881	14.497
	52.5	523.7	973.14	667.13	138,743	6,072	14.421
	55.0	545.3	945.69	694.65	142,949	6,256	14.345
	57.5	566.5	918.63	721.66	146,954	6,431	14.270
	60.0	587.4	891.97	748.28	150,787	6,599	14.195
	62.5	608.1	865.70	774.65	154,481	6,760	14.121
	65.0	628.4	839.82	800.51	157,990	6,914	14.048
	67.5	648.4	814.33	825.99	161,343	7,061	13.976
	70.0	668.1	789.24	851.08	164,545	7,201	13.904
459	14.3	156.8	1,454.90	199.75	49,429	2,154	15.730
	15.3	167.4	1,441.41	213.25	52,541	2,290	15.696
465	4.0	45.5	1,640.29	57.96	15,398	662	16.299
	4.5	51.1	1,633.12	65.10	17,258	742	16.281

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Technical data of tubes

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465	5.1	57.8	1,624.54	73.63	19,469	838	16.260
	5.6	63.4	1,617.40	80.76	21,308	917	16.243
	5.9	66.8	1,613.13	85.10	22,425	964	16.233
	6.4	72.4	1,606.02	92.23	24,251	1,043	16.215
	6.7	75.7	1,601.76	96.43	25,323	1,090	16.205
	7.1	80.2	1,596.09	102.17	26,784	1,152	16.191
	7.5	84.6	1,590.43	107.77	28,204	1,213	16.177
	7.9	89.1	1,584.78	113.50	29,652	1,275	16.163
	8.3	93.5	1,579.14	119.11	31,064	1,336	16.149
	9.1	102.3	1,567.89	130.32	33,871	1,457	16.121
	9.5	106.7	1,562.28	135.92	35,266	1,517	16.107
	9.9	111.1	1,556.68	141.53	36,659	1,577	16.094
	10.3	115.5	1,551.09	147.13	38,044	1,636	16.080
	11.1	124.3	1,539.94	158.34	40,802	1,754	16.052
	11.5	128.6	1,534.38	163.82	42,142	1,813	16.038
	11.9	133.0	1,528.83	169.43	43,510	1,871	16.025
	12.3	137.3	1,523.30	174.90	44,837	1,929	16.011
	12.7	141.7	1,517.77	180.51	46,196	1,986	15.997
	13.1	146.0	1,512.25	185.99	47,517	2,044	15.983
	13.5	150.3	1,506.74	191.46	48,831	2,101	15.970
	14.3	158.9	1,495.75	202.42	51,449	2,213	15.942
	15.1	167.5	1,484.80	213.38	54,049	2,325	15.915
	15.9	176.1	1,473.89	224.33	56,628	2,436	15.888
	16.7	184.6	1,463.03	235.16	59,158	2,545	15.860
	17.5	193.1	1,452.20	245.99	61,670	2,653	15.833
	18.3	201.6	1,441.41	256.82	64,165	2,760	15.806
	19.1	210.0	1,430.67	267.52	66,610	2,865	15.779
	19.8	217.4	1,421.30	276.94	68,749	2,957	15.755
	20.6	225.8	1,410.62	287.64	71,161	3,060	15.728
	21.4	234.1	1,399.99	298.22	73,526	3,163	15.701
	22.2	242.4	1,389.40	308.79	75,872	3,264	15.675
	23.0	250.7	1,378.85	319.36	78,200	3,364	15.648
	23.8	259.0	1,368.34	329.94	80,515	3,462	15.621
	24.6	267.2	1,357.87	340.38	82,779	3,560	15.594
	25.4	275.4	1,347.44	350.83	85,030	3,657	15.568
	27.0	291.7	1,326.70	371.59	89,448	3,847	15.515
	28.6	307.8	1,306.12	392.10	93,743	4,032	15.462
	29.4	315.8	1,295.89	402.29	95,851	4,123	15.435
	30.2	323.8	1,285.70	412.48	97,945	4,213	15.409
	31.8	339.7	1,265.45	432.74	102,058	4,390	15.357
	33.3	354.5	1,246.60	451.59	105,827	4,552	15.308

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Technical data of tubes

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465	34.9	370.2	1,226.66	471.59	109,765	4,721	15.256
	36.5	385.7	1,206.87	491.34	113,588	4,886	15.204
	38.1	401.1	1,187.25	510.96	117,326	5,046	15.153
	40.0	419.3	1,164.16	534.14	121,667	5,232	15.092
	42.5	442.8	1,134.11	564.08	127,138	5,469	15.012
	45.0	466.1	1,104.47	593.76	132,427	5,696	14.934
	47.5	489.1	1,075.21	623.06	137,511	5,914	14.856
	50.0	511.7	1,046.35	651.85	142,368	6,124	14.778
	52.5	534.1	1,017.88	680.38	147,058	6,325	14.701
	55.0	556.1	989.80	708.41	151,533	6,518	14.625
	57.5	577.9	962.11	736.18	155,852	6,703	14.550
	60.0	599.3	934.82	763.44	159,965	6,880	14.475
	62.5	620.4	907.92	790.32	163,905	7,050	14.401
	65.0	641.2	881.41	816.82	167,678	7,212	14.327
	67.5	661.7	855.30	842.93	171,286	7,367	14.254
	70.0	681.9	829.58	868.66	174,736	7,515	14.182
	72.5	701.8	804.25	894.01	178,034	7,657	14.111
	75.0	721.4	779.31	918.98	181,183	7,792	14.041
468	4.0	45.8	1,661.90	58.34	15,702	671	16.405
	4.5	51.4	1,654.68	65.48	17,586	752	16.388
	5.1	58.2	1,646.04	74.14	19,860	849	16.366
	5.6	63.9	1,638.86	81.40	21,759	929	16.349
	5.9	67.2	1,634.56	85.61	22,855	977	16.339
	6.4	72.9	1,627.40	92.87	24,740	1,057	16.321
	6.7	76.2	1,623.11	97.07	25,826	1,104	16.311
	7.1	80.7	1,617.40	102.80	27,304	1,167	16.297
	7.5	85.2	1,611.71	108.54	28,779	1,229	16.283
	7.9	89.6	1,606.02	114.14	30,212	1,292	16.269
	8.3	94.1	1,600.34	119.87	31,675	1,354	16.255
	8.7	98.5	1,594.67	125.48	33,100	1,415	16.241
	9.1	103.0	1,589.02	131.21	34,553	1,476	16.227
	9.5	107.4	1,583.37	136.82	35,969	1,537	16.213
	9.9	111.8	1,577.73	142.42	37,377	1,598	16.200
	10.3	116.3	1,572.10	148.15	38,814	1,658	16.186
	10.7	120.7	1,566.49	153.76	40,216	1,718	16.172
	11.1	125.1	1,560.88	159.36	41,609	1,778	16.158
	11.5	129.5	1,555.28	164.97	43,000	1,837	16.144
	11.9	133.9	1,549.70	170.57	44,384	1,896	16.131
	12.3	138.2	1,544.12	176.05	45,732	1,955	16.117
	12.7	142.6	1,538.55	181.66	47,109	2,013	16.103

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468	13.1	147.0	1,533.00	187.26	48,478	2,071	16.089
	13.5	151.3	1,527.45	192.74	49,812	2,129	16.076
	14.3	160.0	1,516.39	203.82	52,496	2,243	16.048
	15.1	168.7	1,505.36	214.90	55,161	2,357	16.021
	15.9	177.3	1,494.38	225.86	57,777	2,469	15.994
	17.5	194.4	1,472.53	247.64	62,918	2,689	15.939
	18.3	203.0	1,461.67	258.60	65,479	2,798	15.912
	19.1	211.5	1,450.85	269.43	67,989	2,905	15.885
	19.8	218.9	1,441.41	278.85	70,157	2,998	15.861
	20.6	227.3	1,430.67	289.55	72,601	3,103	15.834
	21.4	235.7	1,419.96	300.25	75,029	3,206	15.807
	22.2	244.1	1,409.29	310.96	77,441	3,309	15.780
	23.0	252.4	1,398.67	321.53	79,801	3,410	15.754
	23.8	260.7	1,388.08	332.10	82,145	3,511	15.727
	24.6	269.0	1,377.54	342.68	84,474	3,610	15.700
	25.4	277.3	1,367.03	353.25	86,785	3,708	15.674
	27.0	293.7	1,346.14	374.14	91,295	3,901	15.620
	28.6	309.9	1,325.41	394.78	95,680	4,089	15.568
	29.4	318.0	1,315.11	405.10	97,849	4,182	15.541
	30.2	326.1	1,304.84	415.41	100,000	4,273	15.515
469	31.8	342.1	1,284.43	435.80	104,201	4,453	15.462
	33.3	357.0	1,265.45	454.78	108,052	4,617	15.414
	34.9	372.8	1,245.35	474.90	112,073	4,789	15.362
	36.5	388.4	1,225.42	494.78	115,979	4,957	15.310
	38.1	403.9	1,205.64	514.52	119,797	5,120	15.258
	39.0	412.6	1,194.59	525.61	121,917	5,210	15.230
	40.0	422.2	1,182.37	537.83	124,228	5,309	15.198
	42.5	446.0	1,152.09	568.15	129,862	5,549	15.118
	45.0	469.4	1,122.21	597.96	135,254	5,781	15.039
	47.5	492.6	1,092.72	627.52	140,468	6,003	14.961
473	50.0	515.4	1,063.62	656.56	145,448	6,216	14.883
	15.2	170.1	1,510.87	216.69	55,843	2,381	16.053
	4.5	52.0	1,690.93	66.24	18,176	768	16.564
	5.1	58.9	1,682.19	75.03	20,535	868	16.543
	5.6	64.6	1,674.93	82.29	22,475	950	16.526
	5.9	68.0	1,670.58	86.62	23,627	999	16.515
	6.3	72.5	1,664.79	92.36	25,151	1,064	16.501
	6.4	73.6	1,663.35	93.76	25,521	1,080	16.498
473	6.7	77.0	1,659.01	98.09	26,666	1,128	16.487

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473	7.1	81.6	1,653.24	103.95	28,211	1,193	16.473
	7.5	86.1	1,647.48	109.68	29,716	1,257	16.460
	7.9	90.6	1,641.73	115.41	31,216	1,320	16.446
	8.3	95.1	1,635.99	121.15	32,713	1,383	16.432
	8.7	99.6	1,630.26	126.88	34,202	1,446	16.418
	9.1	104.1	1,624.54	132.61	35,686	1,509	16.404
	9.5	108.6	1,618.83	138.34	37,165	1,571	16.390
	9.9	113.1	1,613.13	144.08	38,642	1,633	16.376
	10.3	117.5	1,607.44	149.68	40,076	1,695	16.362
	10.7	122.0	1,601.76	155.41	41,540	1,756	16.349
	11.0	125.3	1,597.51	159.62	42,612	1,802	16.338
	11.1	126.4	1,596.09	161.02	42,967	1,817	16.335
	11.5	130.9	1,590.43	166.75	44,421	1,878	16.321
	11.9	135.3	1,584.78	172.36	45,838	1,938	16.307
	12.3	139.7	1,579.14	177.96	47,247	1,998	16.293
	12.5	142.0	1,576.32	180.89	47,985	2,028	16.287
	12.7	144.2	1,573.51	183.69	48,686	2,058	16.280
	13.1	148.6	1,567.89	189.30	50,089	2,118	16.266
	13.5	153.0	1,562.28	194.90	51,483	2,177	16.252
	14.3	161.8	1,551.09	206.11	54,261	2,294	16.225
	14.7	166.1	1,545.51	211.59	55,610	2,352	16.211
	15.1	170.5	1,539.94	217.20	56,988	2,410	16.198
	15.9	179.2	1,528.83	228.28	59,693	2,525	16.170
	16.7	187.9	1,517.77	239.36	62,380	2,638	16.143
	17.1	192.3	1,512.25	244.97	63,734	2,694	16.129
	17.5	196.6	1,506.74	250.45	65,050	2,750	16.116
	18.3	205.2	1,495.75	261.40	67,666	2,861	16.089
	19.1	213.8	1,484.80	272.36	70,265	2,971	16.061
	19.8	221.3	1,475.26	281.91	72,515	3,066	16.038
	20.6	229.8	1,464.38	292.74	75,048	3,174	16.011
	21.4	238.3	1,453.55	303.57	77,562	3,280	15.984
	22.2	246.8	1,442.76	314.39	80,057	3,385	15.957
	23.0	255.3	1,432.01	325.22	82,536	3,489	15.930
	23.8	263.7	1,421.30	335.92	84,966	3,592	15.903
	24.6	272.0	1,410.62	346.50	87,347	3,694	15.877
	25.4	280.4	1,399.99	357.20	89,742	3,794	15.850
	27.0	297.0	1,378.85	378.34	94,417	3,992	15.797
	28.6	313.5	1,357.87	399.36	98,996	4,185	15.744
	30.2	329.8	1,337.05	420.13	103,449	4,374	15.691
	31.8	346.0	1,316.39	440.76	107,804	4,558	15.639
	33.3	361.1	1,297.17	460.00	111,806	4,727	15.590



Technical data of tubes

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473	34.9	377.1	1,276.82	480.38	115,982	4,904	15.538
	36.5	392.9	1,256.64	500.51	120,038	5,076	15.486
	38.1	408.6	1,236.61	520.51	124,005	5,244	15.434
	40.0	427.1	1,213.04	544.08	128,599	5,438	15.374
	42.5	451.2	1,182.37	574.78	134,453	5,685	15.294
	45.0	475.0	1,152.09	605.10	140,087	5,923	15.215
	47.5	498.4	1,122.21	634.90	145,477	6,152	15.137
	50.0	521.6	1,092.72	664.46	150,690	6,372	15.059
	60.0	611.1	978.68	778.47	169,482	7,166	14.755
	62.5	632.7	951.15	805.99	173,707	7,345	14.680
476	4.0	46.6	1,720.21	59.36	16,532	694	16.688
	4.5	52.3	1,712.87	66.62	18,515	778	16.670
	5.1	59.2	1,704.07	75.41	20,905	879	16.649
	5.6	65.0	1,696.77	82.80	22,905	962	16.632
	5.9	68.4	1,692.39	87.13	24,073	1,012	16.621
	6.4	74.1	1,685.10	94.39	26,024	1,094	16.604
	6.7	77.5	1,680.74	98.73	27,186	1,143	16.593
	7.1	82.1	1,674.93	104.59	28,751	1,208	16.579
	7.5	86.7	1,669.13	110.45	30,311	1,273	16.565
	7.9	91.2	1,663.35	116.18	31,830	1,337	16.552
	8.3	95.7	1,657.57	121.91	33,344	1,402	16.538
	8.7	100.3	1,651.80	127.77	34,888	1,465	16.524
	9.1	104.8	1,646.04	133.50	36,392	1,529	16.510
	9.5	109.3	1,640.29	139.24	37,893	1,592	16.496
	9.9	113.8	1,634.56	144.97	39,386	1,655	16.482
	10.3	118.3	1,628.83	150.70	40,874	1,717	16.469
	10.7	122.8	1,623.11	156.43	42,357	1,779	16.455
	11.1	127.3	1,617.40	162.17	43,838	1,841	16.441
	11.5	131.7	1,611.71	167.77	45,275	1,903	16.427
	11.9	136.2	1,606.02	173.50	46,743	1,964	16.413
	12.3	140.7	1,600.34	179.24	48,209	2,025	16.400
	12.7	145.1	1,594.67	184.84	49,631	2,085	16.386
	13.1	149.6	1,589.02	190.57	51,084	2,146	16.372
	13.5	154.0	1,583.37	196.18	52,500	2,206	16.358
	14.3	162.8	1,572.10	207.39	55,314	2,324	16.331
	15.1	171.6	1,560.88	218.60	58,108	2,442	16.303
	15.9	180.4	1,549.70	229.81	60,884	2,558	16.276
	17.5	197.9	1,527.45	252.10	66,343	2,787	16.222
	18.3	206.6	1,516.39	263.18	69,027	2,900	16.195
	19.1	215.2	1,505.36	274.14	71,661	3,011	16.167



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
476	19.8	222.8	1,495.75	283.82	73,974	3,108	16.144
	20.6	231.4	1,484.80	294.78	76,574	3,217	16.117
	21.4	239.9	1,473.89	305.61	79,122	3,325	16.090
	22.2	248.5	1,463.03	316.56	81,683	3,431	16.063
	23.0	257.0	1,452.20	327.39	84,196	3,537	16.036
	23.8	265.4	1,441.41	338.09	86,657	3,641	16.009
	24.6	273.9	1,430.67	348.92	89,135	3,744	15.983
	25.4	282.3	1,419.96	359.62	91,562	3,847	15.956
	27.0	299.0	1,398.67	380.89	96,332	4,047	15.903
	28.6	315.6	1,377.54	402.04	101,005	4,243	15.850
	29.4	323.8	1,367.03	412.48	103,283	4,340	15.823
	30.2	332.0	1,356.56	422.93	105,547	4,435	15.797
	31.8	348.4	1,335.76	443.82	110,026	4,622	15.745
	33.3	363.6	1,316.39	463.18	114,111	4,794	15.695
	34.9	379.7	1,295.89	483.69	118,375	4,973	15.643
	36.5	395.6	1,275.56	503.95	122,518	5,148	15.592
	38.1	411.5	1,255.38	524.20	126,600	5,319	15.540
	40.0	430.1	1,231.63	547.90	131,288	5,516	15.479
	42.5	454.4	1,200.72	578.85	137,280	5,768	15.400
	45.0	478.3	1,170.21	609.30	143,023	6,009	15.320
	47.5	502.0	1,140.09	639.49	148,576	6,242	15.242
	50.0	525.3	1,110.36	669.17	153,889	6,466	15.164
	52.5	548.3	1,081.03	698.47	158,997	6,681	15.087
	55.0	571.0	1,052.09	727.39	163,905	6,887	15.011
	57.5	593.5	1,023.54	756.05	168,645	7,085	14.935
	60.0	615.6	995.38	784.20	173,167	7,275	14.860
	65.0	658.8	940.25	839.24	181,639	7,632	14.711
	70.0	700.9	886.68	892.87	189,440	7,959	14.566
	75.0	741.7	834.69	944.84	196,557	8,259	14.423
	80.0	781.3	784.27	995.29	203,059	8,532	14.283
480	8.0	93.1	1,690.93	118.60	33,037	1,377	16.690
	9.0	104.5	1,676.38	133.12	36,928	1,539	16.655
	10.0	115.9	1,661.90	147.64	40,786	1,700	16.620
483	5.1	60.1	1,755.68	76.56	21,859	905	16.897
	5.6	65.9	1,748.26	83.95	23,920	991	16.879
	5.9	69.4	1,743.81	88.41	25,159	1,042	16.869
	6.3	74.1	1,737.90	94.39	26,817	1,110	16.855
	6.7	78.7	1,731.99	100.25	28,434	1,177	16.841
	7.1	83.3	1,726.10	106.11	30,047	1,245	16.827

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
483	7.5	88.0	1,720.21	112.10	31,690	1,311	16.813
	7.9	92.6	1,714.33	117.96	33,292	1,378	16.799
	8.3	97.2	1,708.47	123.82	34,888	1,444	16.785
	8.7	101.8	1,702.61	129.68	36,478	1,510	16.771
	9.1	106.4	1,696.77	135.54	38,064	1,575	16.758
	9.5	110.9	1,690.93	141.27	39,607	1,641	16.744
	10.3	120.1	1,679.29	152.99	42,751	1,770	16.716
	10.7	124.6	1,673.48	158.73	44,282	1,834	16.702
	11.1	129.2	1,667.69	164.59	45,841	1,898	16.688
	11.5	133.7	1,661.90	170.32	47,358	1,961	16.674
	11.9	138.3	1,656.13	176.18	48,907	2,024	16.661
	12.7	147.3	1,644.60	187.64	51,916	2,150	16.633
	13.1	151.8	1,638.86	193.38	53,416	2,212	16.619
	13.5	156.3	1,633.12	199.11	54,908	2,274	16.606
	13.9	160.8	1,627.40	204.84	56,395	2,335	16.592
	14.3	165.3	1,621.68	210.57	57,876	2,396	16.578
	15.1	174.2	1,610.28	221.91	60,792	2,518	16.551
	15.9	183.2	1,598.92	233.38	63,723	2,638	16.524
	16.7	192.0	1,587.60	244.59	66,564	2,757	16.496
	17.5	200.9	1,576.32	255.92	69,417	2,874	16.469
	18.3	209.7	1,565.08	267.13	72,219	2,991	16.442
	19.1	218.5	1,553.89	278.34	75,001	3,106	16.415
	19.8	226.2	1,544.12	288.15	77,421	3,206	16.391
	20.6	234.9	1,533.00	299.24	80,136	3,318	16.364
	21.4	243.6	1,521.91	310.32	82,829	3,430	16.337
	22.2	252.3	1,510.87	321.40	85,504	3,540	16.310
	23.0	260.9	1,499.87	332.36	88,129	3,649	16.283
	23.8	269.5	1,488.90	343.31	90,733	3,757	16.256
	24.6	278.1	1,477.98	354.27	93,322	3,864	16.230
	25.4	286.6	1,467.10	365.10	95,858	3,970	16.203
	27.0	303.6	1,445.45	386.75	100,877	4,178	16.150
	28.6	320.5	1,423.97	408.28	105,794	4,381	16.097
	29.4	328.9	1,413.29	418.98	108,211	4,481	16.070
	30.2	337.2	1,402.65	429.55	110,577	4,579	16.044
	31.8	353.9	1,381.49	450.83	115,296	4,773	15.991
	33.3	369.3	1,361.79	470.45	119,576	4,951	15.942
	34.9	385.7	1,340.94	491.34	124,070	5,137	15.890
	36.5	401.9	1,320.25	511.97	128,437	5,319	15.838
	38.1	418.0	1,299.72	532.48	132,712	5,496	15.787
	40.0	437.0	1,275.56	556.69	137,676	5,701	15.726
	42.5	461.7	1,244.10	588.15	143,984	5,962	15.646



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
483	45.0	486.1	1,213.04	619.24	150,064	6,214	15.567
	47.5	510.2	1,182.37	649.94	155,918	6,456	15.488
	50.0	533.9	1,152.09	680.13	161,522	6,689	15.410
	52.5	557.4	1,122.21	710.06	166,941	6,912	15.333
	55.0	580.5	1,092.72	739.49	172,125	7,128	15.256
	57.5	603.4	1,063.62	768.66	177,134	7,334	15.180
	60.0	625.9	1,034.91	797.32	181,918	7,533	15.105
	62.5	648.1	1,006.60	825.61	186,512	7,723	15.030
	65.0	670.1	978.68	853.63	190,945	7,906	14.956
	67.5	691.7	951.15	881.15	195,171	8,081	14.882
490	70.0	713.0	924.01	908.28	199,219	8,249	14.810
	10.3	121.9	1,730.52	155.29	44,688	1,823	16.963
500	6.3	76.7	1,865.78	97.71	29,775	1,191	17.456
	7.1	86.3	1,853.55	109.94	33,394	1,336	17.428
	7.9	95.9	1,841.36	122.17	36,991	1,479	17.400
	8.7	105.4	1,829.21	134.27	40,525	1,621	17.372
	9.5	114.9	1,817.10	146.37	44,036	1,762	17.345
	9.9	119.7	1,811.06	152.48	45,800	1,831	17.331
	12.3	147.9	1,775.04	188.41	56,053	2,243	17.248
	12.7	152.6	1,769.07	194.39	57,739	2,310	17.234
	14.3	171.3	1,745.29	218.22	64,405	2,576	17.179
	14.7	175.9	1,739.38	224.08	66,029	2,642	17.165
501	15.1	180.6	1,733.47	230.06	67,683	2,707	17.152
	15.9	189.8	1,721.68	241.78	70,904	2,837	17.124
	16.3	194.4	1,715.80	247.64	72,506	2,901	17.111
	16.7	199.0	1,709.93	253.50	74,104	2,965	17.097
	57.5	627.5	1,164.16	799.36	198,953	7,958	15.776
	65.0	697.3	1,075.21	888.28	214,797	8,592	15.550
	67.5	720.0	1,046.35	917.20	219,684	8,787	15.476
	70.0	742.3	1,017.88	945.61	224,346	8,974	15.402
	21.0	248.6	1,654.68	316.69	91,381	3,648	16.986
508	4.0	49.7	1,963.49	63.31	20,103	792	17.819
	4.5	55.9	1,955.65	71.21	22,568	888	17.802
	5.0	62.0	1,947.82	78.98	24,981	984	17.784
	5.1	63.3	1,946.25	80.64	25,496	1,003	17.781
	5.6	69.4	1,938.44	88.41	27,897	1,098	17.763
	5.9	73.1	1,933.76	93.12	29,349	1,155	17.753

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Technical data of tubes

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508	6.1	75.5	1,930.65	96.18	30,290	1,193	17.746
	6.3	77.9	1,927.53	99.24	31,229	1,230	17.739
	6.4	79.2	1,925.98	100.89	31,735	1,249	17.735
	6.7	82.8	1,921.31	105.48	33,140	1,305	17.725
	6.8	84.1	1,919.76	107.13	33,645	1,324	17.721
	7.0	86.5	1,916.65	110.19	34,579	1,361	17.714
	7.1	87.7	1,915.10	111.72	35,045	1,380	17.711
	7.4	91.4	1,910.45	116.43	36,480	1,436	17.700
	7.5	92.6	1,908.90	117.96	36,945	1,454	17.697
	7.9	97.4	1,902.71	124.08	38,800	1,528	17.683
	8.0	98.6	1,901.16	125.61	39,263	1,546	17.679
	8.2	101.1	1,898.07	128.79	40,226	1,583	17.673
	8.3	102.3	1,896.53	130.32	40,687	1,602	17.669
	8.5	104.7	1,893.44	133.38	41,610	1,638	17.662
	8.7	107.1	1,890.36	136.43	42,528	1,675	17.655
	8.8	108.3	1,888.82	137.96	42,988	1,693	17.652
	9.0	110.8	1,885.74	141.15	43,947	1,729	17.645
	9.1	112.0	1,884.20	142.68	44,406	1,748	17.641
	9.2	113.2	1,882.66	144.20	44,862	1,766	17.638
	9.5	116.8	1,878.05	148.79	46,235	1,820	17.627
	9.9	121.6	1,871.91	154.90	48,058	1,892	17.613
	10.0	122.8	1,870.38	156.43	48,514	1,910	17.610
	10.3	126.4	1,865.78	161.02	49,878	1,964	17.600
	10.7	131.2	1,859.66	167.13	51,690	2,035	17.586
	11.0	134.8	1,855.08	171.72	53,046	2,089	17.575
	11.1	136.0	1,853.55	173.25	53,498	2,107	17.572
	11.5	140.8	1,847.45	179.36	55,298	2,177	17.558
	11.9	145.6	1,841.36	185.48	57,095	2,248	17.544
	12.0	146.8	1,839.84	187.01	57,543	2,265	17.541
	12.3	150.4	1,835.28	191.59	58,883	2,318	17.531
	12.5	152.8	1,832.25	194.65	59,776	2,353	17.524
	12.7	155.1	1,829.21	197.58	60,628	2,387	17.517
	12.9	157.5	1,826.18	200.64	61,519	2,422	17.510
	13.1	159.9	1,823.15	203.69	62,405	2,457	17.503
	13.5	164.6	1,817.10	209.68	64,139	2,526	17.489
	13.9	169.4	1,811.06	215.80	65,907	2,594	17.475
	14.0	170.6	1,809.56	217.32	66,346	2,611	17.472
	14.2	172.9	1,806.54	220.25	67,187	2,646	17.465
	14.3	174.1	1,805.03	221.78	67,627	2,663	17.462
	14.7	178.8	1,799.02	227.77	69,345	2,731	17.448
	14.9	181.2	1,796.01	230.83	70,221	2,764	17.441

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
508	15.1	183.6	1,793.01	233.89	71,096	2,798	17.434
	15.5	188.3	1,787.01	239.87	72,800	2,866	17.421
	15.7	190.6	1,784.01	242.80	73,631	2,899	17.414
	15.9	193.0	1,781.02	245.86	74,500	2,932	17.407
	16.0	194.1	1,779.52	247.26	74,895	2,949	17.404
	16.1	195.3	1,778.03	248.79	75,329	2,966	17.400
	16.3	197.7	1,775.04	251.85	76,196	2,999	17.393
	16.7	202.3	1,769.07	257.71	77,846	3,065	17.380
	17.0	205.9	1,764.60	262.29	79,136	3,115	17.369
	17.5	211.7	1,757.16	269.68	81,206	3,197	17.352
	17.9	216.4	1,751.22	275.67	82,880	3,262	17.339
	18.3	221.0	1,745.29	281.53	84,509	3,327	17.325
	18.7	225.7	1,739.38	287.52	86,171	3,392	17.311
	19.1	230.3	1,733.47	293.38	87,790	3,456	17.298
	19.5	234.9	1,727.57	299.24	89,403	3,520	17.284
	19.8	238.4	1,723.15	303.69	90,625	3,568	17.274
	20.0	240.7	1,720.21	306.62	91,428	3,600	17.267
	20.2	243.0	1,717.27	309.55	92,229	3,631	17.261
	20.6	247.6	1,711.40	315.41	93,828	3,694	17.247
	21.4	256.8	1,699.69	327.13	97,009	3,819	17.220
	21.6	259.1	1,696.77	330.06	97,802	3,851	17.213
	22.2	266.0	1,688.02	338.85	100,170	3,943	17.193
	23.0	275.1	1,676.38	350.45	103,275	4,066	17.166
	23.4	279.7	1,670.58	356.31	104,837	4,127	17.153
	23.8	284.2	1,664.79	362.04	106,357	4,187	17.139
	24.6	293.3	1,653.24	373.63	109,418	4,307	17.112
	25.0	297.8	1,647.48	379.36	110,922	4,367	17.099
	25.4	302.3	1,641.73	385.10	112,424	4,426	17.086
	25.8	306.8	1,635.99	390.83	113,918	4,485	17.072
	26.2	311.3	1,630.26	396.56	115,408	4,544	17.059
	26.6	315.8	1,624.54	402.29	116,892	4,602	17.046
	27.0	320.3	1,618.83	408.03	118,375	4,660	17.032
	27.5	325.9	1,611.71	415.16	120,208	4,732	17.016
	27.8	329.2	1,607.44	419.36	121,281	4,775	17.006
	28.6	338.1	1,596.09	430.70	124,172	4,889	16.979
	29.5	348.1	1,583.37	443.44	127,396	5,016	16.949
	29.6	349.2	1,581.96	444.84	127,748	5,030	16.946
	29.8	351.4	1,579.14	447.64	128,452	5,058	16.939
	30.2	355.9	1,573.51	453.38	129,896	5,113	16.926
	30.6	360.3	1,567.89	458.98	131,295	5,169	16.913
	31.5	370.2	1,555.28	471.59	134,429	5,292	16.883

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508	31.8	373.5	1,551.09	475.80	135,471	5,333	16.873
	32.5	381.1	1,541.33	485.48	137,850	5,427	16.850
	33.3	389.8	1,530.22	496.56	140,557	5,534	16.824
	33.7	394.2	1,524.68	502.17	141,923	5,587	16.811
	34.4	401.8	1,515.01	511.85	144,265	5,679	16.788
	34.9	407.2	1,508.11	518.73	145,920	5,745	16.772
	35.4	412.6	1,501.24	525.61	147,568	5,810	16.755
	36.5	424.4	1,486.17	540.64	151,139	5,951	16.719
	38.1	441.5	1,464.38	562.42	156,253	6,152	16.668
	39.1	452.2	1,450.85	576.05	159,419	6,276	16.635
	40.0	461.7	1,438.72	588.15	162,200	6,385	16.606
	41.5	477.5	1,418.62	608.28	166,779	6,565	16.558
	42.5	487.9	1,405.30	621.53	169,753	6,683	16.526
	45.0	513.8	1,372.28	654.52	177,043	6,971	16.446
	47.5	539.5	1,339.64	687.26	184,114	7,248	16.367
	50.0	564.8	1,307.40	719.49	190,902	7,515	16.288
	52.5	589.8	1,275.56	751.34	197,449	7,773	16.210
	55.0	614.5	1,244.10	782.80	203,757	8,021	16.133
513	11.9	147.1	1,879.59	187.39	58,851	2,294	17.721
	18.3	223.3	1,782.51	284.46	87,138	3,397	17.502
	18.7	228.0	1,776.53	290.45	88,835	3,463	17.488
515	4.0	50.4	2,018.86	64.20	20,956	814	18.067
	4.5	56.7	2,010.90	72.23	23,532	913	18.049
	5.1	64.1	2,001.37	81.66	26,542	1,031	18.028
	5.6	70.4	1,993.45	89.68	29,092	1,129	18.011
	5.9	74.1	1,988.71	94.39	30,584	1,187	18.000
	6.4	80.3	1,980.81	102.29	33,080	1,284	17.983
	6.7	84.0	1,976.08	107.01	34,566	1,342	17.972
	7.1	88.9	1,969.78	113.25	36,525	1,419	17.958
	7.5	93.9	1,963.49	119.62	38,520	1,495	17.944
	7.9	98.8	1,957.22	125.86	40,466	1,571	17.930
	8.3	103.7	1,950.95	132.10	42,406	1,647	17.916
	8.7	108.6	1,944.69	138.34	44,341	1,722	17.903
	9.1	113.5	1,938.44	144.59	46,272	1,797	17.889
	9.5	118.4	1,932.20	150.83	48,194	1,872	17.875
	9.9	123.3	1,925.98	157.07	50,110	1,946	17.861
	10.3	128.2	1,919.76	163.31	52,020	2,020	17.847
	10.7	133.1	1,913.55	169.55	53,924	2,094	17.833
	11.1	137.9	1,907.35	175.67	55,784	2,167	17.819

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Technical data of tubes

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515	11.5	142.8	1,901.16	181.91	57,676	2,240	17.806
	11.9	147.6	1,894.99	188.03	59,524	2,312	17.792
	12.3	152.5	1,888.82	194.27	61,404	2,384	17.778
	12.7	157.3	1,882.66	200.38	63,237	2,456	17.764
	13.1	162.1	1,876.51	206.50	65,067	2,528	17.750
	13.5	167.0	1,870.38	212.74	66,929	2,599	17.737
	14.3	176.6	1,858.13	224.97	70,558	2,740	17.709
	15.1	186.2	1,845.93	237.20	74,163	2,879	17.682
	15.9	195.7	1,833.76	249.30	77,705	3,018	17.654
	17.5	214.7	1,809.56	273.50	84,721	3,290	17.600
	18.3	224.2	1,797.51	285.61	88,198	3,425	17.572
	19.1	233.6	1,785.51	297.58	91,611	3,557	17.545
	20.6	251.2	1,763.11	320.00	97,942	3,803	17.494
	22.2	269.8	1,739.38	343.69	104,544	4,060	17.440
	22.6	274.4	1,733.47	349.55	106,162	4,123	17.427
	23.0	279.1	1,727.57	355.54	107,814	4,187	17.413
	23.4	283.7	1,721.68	361.40	109,422	4,249	17.400
	23.8	288.3	1,715.80	367.26	111,024	4,312	17.386
	25.4	306.7	1,692.39	390.70	117,383	4,558	17.333
	27.0	324.9	1,669.13	413.89	123,584	4,800	17.279
	28.6	343.1	1,646.04	437.07	129,702	5,037	17.226
	30.2	361.1	1,623.11	460.00	135,667	5,268	17.173
	31.8	379.0	1,600.34	482.80	141,517	5,495	17.120
	33.3	395.6	1,579.14	503.95	146,866	5,703	17.071
	34.9	413.2	1,556.68	526.37	152,459	5,921	17.018
	36.0	425.3	1,541.33	541.78	156,261	6,068	16.982
	36.5	430.7	1,534.38	548.66	157,942	6,134	16.966
	38.1	448.1	1,512.25	570.83	163,318	6,342	16.914
	40.0	468.6	1,486.17	596.94	169,550	6,584	16.853
	42.5	495.2	1,452.20	630.83	177,470	6,893	16.772
	45.0	521.6	1,418.62	664.46	185,156	7,190	16.692
	47.5	547.7	1,385.44	697.71	192,579	7,478	16.613
	50.0	573.4	1,352.65	730.45	199,710	7,755	16.535
	52.5	598.8	1,320.25	762.80	206,588	8,023	16.456
	55.0	623.9	1,288.25	794.78	213,225	8,281	16.379
	57.5	648.8	1,256.64	826.50	219,655	8,530	16.302
	60.0	673.3	1,225.42	857.71	225,819	8,769	16.225
	62.5	697.5	1,194.59	888.54	231,756	9,000	16.150
	65.0	721.4	1,164.16	918.98	237,470	9,222	16.075
	70.0	768.2	1,104.47	978.60	248,228	9,640	15.926



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
521	3.2	40.9	2,079.84	52.10	17,462	670	18.307
	3.6	45.9	2,073.37	58.47	19,567	752	18.293
	4.0	51.0	2,066.92	64.97	21,709	833	18.279
	4.5	57.3	2,058.87	72.99	24,342	935	18.261
	5.1	64.9	2,049.23	82.68	27,510	1,056	18.240
	5.6	71.2	2,041.22	90.70	30,120	1,156	18.223
	5.9	75.0	2,036.42	95.54	31,691	1,216	18.212
	6.4	81.2	2,028.42	103.44	34,246	1,315	18.195
	6.7	85.0	2,023.64	108.28	35,807	1,374	18.184
	7.1	90.0	2,017.26	114.65	37,855	1,453	18.170
	7.5	95.0	2,010.90	121.02	39,897	1,531	18.156
	7.9	100.0	2,004.55	127.39	41,933	1,609	18.143
	8.0	101.2	2,002.96	128.92	42,420	1,629	18.139
	8.3	104.9	1,998.20	133.63	43,919	1,687	18.129
	8.7	109.9	1,991.87	140.00	45,942	1,764	18.115
	9.1	114.9	1,985.55	146.37	47,959	1,841	18.101
	9.5	119.8	1,979.23	152.61	49,927	1,917	18.087
	9.9	124.8	1,972.93	158.98	51,931	1,993	18.073
	10.3	129.7	1,966.64	165.22	53,887	2,069	18.059
	10.7	134.7	1,960.35	171.59	55,878	2,144	18.045
	11.1	139.6	1,954.08	177.83	57,822	2,219	18.031
	11.5	144.5	1,947.82	184.08	59,762	2,294	18.018
	11.9	149.4	1,941.56	190.32	61,693	2,368	18.004
	12.3	154.3	1,935.32	196.56	63,618	2,442	17.990
	12.7	159.2	1,929.09	202.80	65,537	2,516	17.976
	13.1	164.1	1,922.87	209.04	67,450	2,589	17.962
	13.5	169.0	1,916.65	215.29	69,361	2,662	17.949
	13.9	173.8	1,910.45	221.40	71,220	2,734	17.935
	14.3	178.7	1,904.26	227.64	73,115	2,807	17.921
	14.7	183.5	1,898.07	233.76	74,966	2,878	17.907
	15.1	188.4	1,891.90	240.00	76,849	2,950	17.894
	15.5	193.2	1,885.74	246.11	78,685	3,021	17.880
	15.9	198.1	1,879.59	252.36	80,559	3,092	17.866
	16.3	202.9	1,873.44	258.47	82,383	3,162	17.853
	16.7	207.7	1,867.31	264.59	84,205	3,232	17.839
	17.5	217.3	1,855.08	276.82	87,828	3,371	17.812
	18.3	226.9	1,842.88	289.04	91,424	3,509	17.784
	19.1	236.4	1,830.73	301.15	94,963	3,646	17.757
	19.8	244.7	1,820.13	311.72	98,033	3,764	17.733
	20.6	254.2	1,808.05	323.82	101,527	3,898	17.706
	21.0	259.0	1,802.02	329.94	103,288	3,964	17.693

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521	21.4	263.7	1,796.01	335.92	104,999	4,030	17.679
	21.8	268.4	1,790.01	341.91	106,708	4,096	17.666
	22.2	273.1	1,784.01	347.90	108,412	4,161	17.652
	23.0	282.5	1,772.05	359.87	111,799	4,291	17.625
	23.8	291.8	1,760.14	371.72	115,128	4,420	17.598
	24.2	296.5	1,754.19	377.71	116,805	4,484	17.585
	24.6	301.2	1,748.26	383.69	118,473	4,547	17.571
	25.0	305.8	1,742.33	389.55	120,099	4,610	17.558
	25.4	310.5	1,736.42	395.54	121,759	4,673	17.545
	26.2	319.7	1,724.62	407.26	124,985	4,798	17.518
	27.0	328.9	1,712.87	418.98	128,190	4,921	17.491
	28.6	347.3	1,689.47	442.42	134,538	5,165	17.438
	29.4	356.4	1,677.84	454.01	137,642	5,284	17.411
	30.2	365.5	1,666.24	465.61	140,729	5,403	17.385
	31.8	383.7	1,643.17	488.79	146,837	5,636	17.332
	33.3	400.5	1,621.68	510.19	152,394	5,850	17.282
	34.9	418.4	1,598.92	532.99	158,239	6,074	17.230
	36.5	436.1	1,576.32	555.54	163,935	6,293	17.178
	38.1	453.7	1,553.89	577.96	169,519	6,508	17.126
	40.0	474.5	1,527.45	604.46	176,020	6,757	17.064
	42.5	501.5	1,493.01	638.85	184,283	7,075	16.984
524	45.0	528.3	1,458.96	672.99	192,308	7,382	16.904
	47.5	554.7	1,425.31	706.62	200,025	7,678	16.824
	50.0	580.8	1,392.05	739.87	207,479	7,964	16.745
	3.2	41.1	2,104.16	52.36	17,753	678	18.413
	3.6	46.2	2,097.66	58.85	19,923	760	18.399
	4.0	51.3	2,091.17	65.35	22,090	843	18.385
	4.5	57.7	2,083.07	73.50	24,797	946	18.367
	5.1	65.3	2,073.37	83.18	27,999	1,068	18.346
	5.6	71.6	2,065.31	91.21	30,643	1,169	18.329
	5.9	75.4	2,060.48	96.05	32,232	1,230	18.318
	6.4	81.7	2,052.44	104.08	34,860	1,330	18.301
	6.7	85.5	2,047.63	108.92	36,440	1,390	18.290
	7.1	90.5	2,041.22	115.29	38,512	1,470	18.276
	7.5	95.5	2,034.82	121.66	40,578	1,549	18.262
	7.9	100.6	2,028.42	128.15	42,677	1,628	18.248
	8.3	105.6	2,022.04	134.52	44,730	1,707	18.235
	8.7	110.6	2,015.67	140.89	46,777	1,785	18.221
	9.1	115.6	2,009.31	147.26	48,818	1,863	18.207
	9.5	120.5	2,002.96	153.50	50,809	1,940	18.193

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524	9.9	125.5	1,996.62	159.87	52,836	2,017	18.179
	10.3	130.5	1,990.29	166.24	54,858	2,094	18.165
	10.7	135.5	1,983.97	172.61	56,873	2,170	18.151
	11.1	140.4	1,977.66	178.85	58,839	2,246	18.137
	11.5	145.4	1,971.36	185.22	60,842	2,321	18.124
	11.9	150.3	1,965.06	191.46	62,796	2,397	18.110
	12.3	155.2	1,958.78	197.71	64,747	2,472	18.096
	12.7	160.1	1,952.51	203.95	66,689	2,546	18.082
	13.1	165.1	1,946.25	210.32	68,667	2,620	18.068
	13.5	170.0	1,940.00	216.56	70,597	2,694	18.055
	13.9	174.9	1,933.76	222.80	72,520	2,767	18.041
	14.3	179.8	1,927.53	229.04	74,438	2,840	18.027
	14.7	184.6	1,921.31	235.16	76,310	2,913	18.013
	15.1	189.5	1,915.10	241.40	78,216	2,985	18.000
	15.5	194.4	1,908.90	247.64	80,115	3,058	17.986
	15.9	199.2	1,902.71	253.76	81,970	3,129	17.972
	16.3	204.1	1,896.53	260.00	83,858	3,200	17.959
	16.7	208.9	1,890.36	266.11	85,698	3,271	17.945
	17.5	218.6	1,878.05	278.47	89,406	3,412	17.918
	18.3	228.2	1,865.78	290.70	93,048	3,552	17.890
	19.1	237.8	1,853.55	302.93	96,668	3,690	17.863
	19.8	246.2	1,842.88	313.63	99,817	3,810	17.839
	20.6	255.7	1,830.73	325.73	103,352	3,945	17.812
	22.2	274.7	1,806.54	349.94	110,361	4,213	17.758
	23.0	284.2	1,794.51	362.04	113,830	4,344	17.731
	23.8	293.6	1,782.51	374.01	117,236	4,475	17.704
	25.4	312.3	1,758.65	397.83	123,947	4,731	17.651
	27.0	330.9	1,734.94	421.53	130,536	4,983	17.597
	28.6	349.4	1,711.40	445.10	137,001	5,229	17.544
	29.4	358.6	1,699.69	456.82	140,183	5,351	17.517
	30.2	367.8	1,688.02	468.54	143,344	5,471	17.491
	31.8	386.0	1,664.79	491.72	149,527	5,707	17.438
	33.3	403.0	1,643.17	513.38	155,230	5,924	17.388
	34.9	421.0	1,620.26	536.31	161,186	6,152	17.336
	36.5	438.8	1,597.51	558.98	166,987	6,374	17.283
	38.1	456.6	1,574.92	581.66	172,717	6,592	17.231
	40.0	477.5	1,548.30	608.28	179,333	6,844	17.170
	42.5	504.7	1,513.63	642.93	187,775	7,167	17.089
	45.0	531.6	1,479.34	677.20	195,936	7,478	17.009
	47.5	558.2	1,445.45	711.08	203,821	7,779	16.930
	50.0	584.5	1,411.96	744.59	211,441	8,070	16.851

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524	55.0	636.2	1,346.14	810.45	225,899	8,621	16.695
	60.0	686.6	1,281.89	874.65	239,322	9,134	16.541
527	20.6	257.3	1,853.55	327.77	105,241	3,993	17.918
530	5.1	66.0	2,122.08	84.08	28,960	1,093	18.558
	5.6	72.4	2,113.92	92.23	31,707	1,197	18.541
	5.9	76.3	2,109.04	97.20	33,378	1,259	18.530
	6.0	77.5	2,107.41	98.73	33,891	1,279	18.527
	6.4	82.6	2,100.91	105.22	36,064	1,362	18.513
	6.7	86.5	2,096.03	110.19	37,725	1,423	18.503
	7.0	90.3	2,091.17	115.03	39,337	1,484	18.492
	7.1	91.6	2,089.55	116.69	39,890	1,505	18.489
	7.5	96.6	2,083.07	123.06	42,004	1,586	18.475
	7.9	101.7	2,076.60	129.55	44,152	1,666	18.461
	8.0	103.0	2,074.99	131.21	44,701	1,687	18.457
	8.3	106.8	2,070.15	136.05	46,298	1,747	18.447
	8.7	111.8	2,063.70	142.42	48,392	1,827	18.433
	9.0	115.6	2,058.87	147.26	49,980	1,887	18.422
	9.1	116.9	2,057.26	148.92	50,525	1,907	18.419
	9.5	121.9	2,050.84	155.29	52,607	1,986	18.405
	9.9	127.0	2,044.42	161.78	54,722	2,065	18.391
	10.0	128.2	2,042.82	163.31	55,219	2,084	18.388
	10.3	132.0	2,038.02	168.15	56,791	2,143	18.377
	10.7	137.0	2,031.62	174.52	58,854	2,221	18.363
	11.1	142.0	2,025.23	180.89	60,910	2,299	18.350
	11.5	147.1	2,018.86	187.39	63,004	2,377	18.336
	11.9	152.1	2,012.49	193.76	65,047	2,454	18.322
	12.3	157.0	2,006.13	200.00	67,041	2,530	18.308
	12.7	162.0	1,999.79	206.37	69,072	2,607	18.294
	13.1	167.0	1,993.45	212.74	71,097	2,683	18.281
	13.5	172.0	1,987.13	219.11	73,116	2,758	18.267
	13.9	176.9	1,980.81	225.35	75,085	2,834	18.253
	14.0	178.2	1,979.23	227.01	75,609	2,852	18.250
	14.2	180.6	1,976.08	230.06	76,567	2,890	18.243
	14.3	181.9	1,974.50	231.72	77,091	2,909	18.239
	14.7	186.8	1,968.21	237.96	79,047	2,983	18.225
	15.1	191.7	1,961.92	244.20	80,998	3,057	18.212
	15.5	196.7	1,955.65	250.57	82,986	3,131	18.198
	15.9	201.6	1,949.38	256.82	84,928	3,205	18.184
	16.3	206.5	1,943.13	263.06	86,860	3,278	18.171

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
530	16.7	211.4	1,936.88	269.30	88,787	3,350	18.157
	17.1	216.3	1,930.65	275.54	90,707	3,423	18.143
	17.5	221.2	1,924.42	281.78	92,622	3,495	18.130
	18.3	230.9	1,912.00	294.14	96,394	3,638	18.102
	19.1	240.7	1,899.62	306.62	100,182	3,780	18.075
	19.5	245.5	1,893.44	312.74	102,028	3,850	18.062
	19.8	249.1	1,888.82	317.32	103,405	3,903	18.051
	20.2	254.0	1,882.66	323.57	105,283	3,972	18.038
	20.6	258.8	1,876.51	329.68	107,110	4,042	18.024
	21.4	268.4	1,864.25	341.91	110,750	4,180	17.997
	22.2	278.0	1,852.03	354.14	114,367	4,316	17.970
	23.0	287.6	1,839.84	366.37	117,961	4,451	17.943
	23.8	297.1	1,827.70	378.47	121,491	4,585	17.916
	25.0	311.4	1,809.56	396.69	126,767	4,783	17.876
	25.4	316.1	1,803.53	402.68	128,488	4,848	17.862
	27.0	334.9	1,779.52	426.62	135,312	5,107	17.809
	28.0	346.6	1,764.60	441.53	139,517	5,265	17.775
	28.6	353.7	1,755.68	450.57	142,053	5,360	17.755
	29.4	363.0	1,743.81	462.42	145,353	5,484	17.729
	30.2	372.2	1,731.99	474.14	148,591	5,608	17.702
	31.8	390.7	1,708.47	497.71	155,046	5,851	17.649
	33.3	407.9	1,686.56	519.62	160,965	6,074	17.600
	34.9	426.1	1,663.35	542.80	167,143	6,308	17.547
	36.5	444.2	1,640.29	565.86	173,206	6,536	17.495
	38.1	462.2	1,617.40	588.79	179,152	6,760	17.443
	40.0	483.4	1,590.43	615.80	186,049	7,020	17.381
	42.5	511.0	1,555.28	650.96	194,851	7,352	17.301
	45.0	538.2	1,520.53	685.61	203,326	7,673	17.220
	47.5	565.2	1,486.17	720.00	211,556	7,983	17.141
	50.0	591.9	1,452.20	754.01	219,511	8,283	17.062
	52.5	618.2	1,418.62	787.52	227,163	8,573	16.983
	55.0	644.3	1,385.44	820.76	234,583	8,852	16.905
	57.5	670.0	1,352.65	853.50	241,714	9,122	16.828
	60.0	695.5	1,320.25	885.99	248,631	9,382	16.751
533	9.5	122.7	2,074.99	156.31	53,564	2,009	18.511
	10.3	132.8	2,062.09	169.17	57,797	2,168	18.483
	11.1	142.9	2,049.23	182.04	62,008	2,326	18.456
	11.9	152.9	2,036.42	194.78	66,149	2,483	18.428
	12.7	163.0	2,023.64	207.64	70,305	2,637	18.400
	14.3	182.9	1,998.20	232.99	78,417	2,943	18.345

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533	15.1	192.9	1,985.55	245.73	82,457	3,093	18.318
	15.9	202.8	1,972.93	258.34	86,429	3,243	18.290
	16.3	207.7	1,966.64	264.59	88,388	3,317	18.277
	16.7	212.6	1,960.35	270.83	90,337	3,390	18.263
	17.5	222.5	1,947.82	283.44	94,260	3,537	18.236
	18.3	232.3	1,935.32	295.92	98,116	3,682	18.208
	19.1	242.1	1,922.87	308.41	101,952	3,825	18.181
	19.5	246.9	1,916.65	314.52	103,816	3,896	18.168
	19.8	250.6	1,912.00	319.24	105,256	3,949	18.157
	20.6	260.3	1,899.62	331.59	109,001	4,090	18.130
	21.0	265.2	1,893.44	337.83	110,886	4,160	18.117
	22.2	279.7	1,874.98	356.31	116,429	4,368	18.076
540	4.0	52.9	2,222.86	67.39	24,202	896	18.950
	4.5	59.4	2,214.51	75.67	27,126	1,005	18.933
	5.1	67.3	2,204.52	85.73	30,664	1,135	18.912
	5.6	73.8	2,196.20	94.01	33,563	1,243	18.894
	5.9	77.7	2,191.22	98.98	35,298	1,308	18.884
	6.4	84.2	2,182.93	107.26	38,181	1,414	18.867
	6.7	88.1	2,177.97	112.23	39,905	1,478	18.856
	7.1	93.3	2,171.35	118.85	42,197	1,563	18.842
	7.5	98.5	2,164.75	125.48	44,485	1,647	18.828
	7.9	103.7	2,158.16	132.10	46,762	1,731	18.814
	8.3	108.8	2,151.58	138.60	48,991	1,815	18.800
	8.7	114.0	2,145.01	145.22	51,255	1,898	18.786
	9.1	119.1	2,138.44	151.72	53,469	1,981	18.772
	9.5	124.3	2,131.89	158.34	55,720	2,064	18.759
	9.9	129.4	2,125.35	164.84	57,921	2,146	18.745
	10.3	134.6	2,118.82	171.46	60,158	2,227	18.731
	10.7	139.7	2,112.29	177.96	62,347	2,309	18.717
	11.1	144.8	2,105.78	184.46	64,528	2,390	18.703
	11.5	149.9	2,099.28	190.96	66,703	2,470	18.689
	11.9	155.0	2,092.79	197.45	68,868	2,550	18.675
	12.3	160.1	2,086.31	203.95	71,030	2,630	18.662
	12.7	165.2	2,079.84	210.45	73,186	2,710	18.648
	13.1	170.2	2,073.37	216.82	75,289	2,789	18.634
	13.5	175.3	2,066.92	223.31	77,428	2,868	18.620
	14.3	185.4	2,054.05	236.18	81,649	3,024	18.593
	15.1	195.5	2,041.22	249.04	85,840	3,179	18.565
	15.9	205.5	2,028.42	261.78	89,965	3,332	18.538
	16.7	215.5	2,015.67	274.52	94,065	3,484	18.510

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540	17.5	225.5	2,002.96	287.26	98,140	3,635	18.483
	18.3	235.5	1,990.29	300.00	102,190	3,784	18.456
	19.1	245.4	1,977.66	312.61	106,171	3,932	18.428
	19.5	250.3	1,971.36	318.85	108,130	4,005	18.415
	19.8	254.0	1,966.64	323.57	109,609	4,060	18.405
	20.2	259.0	1,960.35	329.94	111,602	4,132	18.391
	20.6	263.9	1,954.08	336.18	113,545	4,205	18.378
	21.0	268.8	1,947.82	342.42	115,482	4,277	18.364
	21.4	273.7	1,941.56	348.66	117,413	4,349	18.350
	21.8	278.6	1,935.32	354.90	119,338	4,420	18.337
	22.2	283.5	1,929.09	361.15	121,261	4,491	18.323
	23.0	293.3	1,916.65	373.63	125,081	4,632	18.296
	23.8	303.0	1,904.26	385.99	128,838	4,771	18.269
	24.6	312.7	1,891.90	398.34	132,569	4,910	18.242
	25.4	322.4	1,879.59	410.70	136,280	5,047	18.216
	27.0	341.6	1,855.08	435.16	143,547	5,316	18.162
	28.6	360.7	1,830.73	459.49	150,683	5,581	18.108
	29.4	370.2	1,818.61	471.59	154,196	5,711	18.082
	30.2	379.7	1,806.54	483.69	157,688	5,840	18.055
	31.8	398.6	1,782.51	507.77	164,567	6,094	18.002
	33.3	416.1	1,760.14	530.06	170,847	6,328	17.953
	34.9	434.7	1,736.42	553.76	177,441	6,572	17.900
	36.5	453.2	1,712.87	577.32	183,909	6,812	17.848
	38.1	471.6	1,689.47	600.76	190,257	7,046	17.795
	40.0	493.2	1,661.90	628.28	197,594	7,319	17.734
	42.5	521.4	1,625.97	664.20	206,992	7,667	17.653
	45.0	549.3	1,590.43	699.75	216,092	8,004	17.573
	47.5	576.9	1,555.28	734.90	224,891	8,330	17.493
	50.0	604.2	1,520.53	769.68	233,405	8,645	17.414
	52.5	631.2	1,486.17	804.08	241,639	8,949	17.335
	55.0	657.9	1,452.20	838.09	249,594	9,243	17.257
	57.5	684.2	1,418.62	871.59	257,242	9,528	17.179
	60.0	710.3	1,385.44	904.84	264,666	9,802	17.102
546	4.0	53.5	2,273.29	68.15	25,026	916	19.162
	4.5	60.1	2,264.84	76.56	28,063	1,028	19.145
	5.1	68.0	2,254.73	86.62	31,681	1,161	19.124
	5.6	74.6	2,246.32	95.03	34,694	1,271	19.107
	5.9	78.6	2,241.29	100.13	36,515	1,337	19.096
	6.4	85.2	2,232.90	108.54	39,510	1,447	19.079
	6.7	89.1	2,227.88	113.50	41,270	1,512	19.068

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546	7.1	94.4	2,221.19	120.25	43,660	1,599	19.054
	7.5	99.6	2,214.51	126.88	46,000	1,685	19.040
	7.9	104.8	2,207.85	133.50	48,329	1,771	19.026
	8.3	110.1	2,201.19	140.25	50,699	1,857	19.012
	8.7	115.3	2,194.54	146.88	53,018	1,942	18.998
	9.1	120.5	2,187.90	153.50	55,326	2,026	18.984
	9.5	125.7	2,181.28	160.13	57,631	2,111	18.971
	9.9	130.9	2,174.66	166.75	59,926	2,195	18.957
	10.3	136.1	2,168.05	173.38	62,218	2,279	18.943
	10.7	141.3	2,161.45	180.00	64,499	2,362	18.929
	11.1	146.4	2,154.87	186.50	66,730	2,445	18.915
	11.5	151.6	2,148.29	193.12	68,998	2,527	18.901
	11.9	156.7	2,141.72	199.62	71,216	2,609	18.888
	12.3	161.9	2,135.17	206.24	73,470	2,691	18.874
	12.7	167.0	2,128.62	212.74	75,674	2,772	18.860
	13.1	172.2	2,122.08	219.36	77,915	2,853	18.846
	13.5	177.3	2,115.55	225.86	80,106	2,934	18.832
	14.3	187.5	2,102.53	238.85	84,466	3,094	18.805
	15.1	197.7	2,089.55	251.85	88,803	3,253	18.777
	15.9	207.9	2,076.60	264.84	93,111	3,410	18.750
	16.7	218.0	2,063.70	277.71	97,350	3,566	18.722
	17.5	228.1	2,050.84	290.57	101,561	3,720	18.695
	18.3	238.2	2,038.02	303.44	105,750	3,873	18.668
	19.1	248.2	2,025.23	316.18	109,868	4,024	18.640
	19.8	256.9	2,014.08	327.26	113,428	4,156	18.617
	20.6	266.9	2,001.37	340.00	117,500	4,304	18.589
	21.4	276.9	1,988.71	352.74	121,547	4,452	18.562
	22.2	286.8	1,976.08	365.35	125,525	4,598	18.535
	23.0	296.7	1,963.49	377.96	129,479	4,742	18.508
	23.8	306.5	1,950.95	390.45	133,368	4,885	18.481
	24.6	316.3	1,938.44	402.93	137,229	5,027	18.454
	25.4	326.1	1,925.98	415.41	141,068	5,167	18.427
	27.0	345.6	1,901.16	440.25	148,634	5,444	18.374
	28.6	364.9	1,876.51	464.84	156,024	5,716	18.320
	29.4	374.6	1,864.25	477.20	159,707	5,849	18.294
	30.2	384.2	1,852.03	489.43	163,324	5,982	18.267
	31.8	403.3	1,827.70	513.76	170,448	6,243	18.214
	33.3	421.1	1,805.03	536.43	177,002	6,483	18.164
	34.8	438.7	1,782.51	558.85	183,398	6,718	18.115
	36.5	458.6	1,757.16	584.20	190,539	6,980	18.059
	38.1	477.2	1,733.47	607.90	197,122	7,221	18.007

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546	40.0	499.2	1,705.54	635.92	204,795	7,501	17.945
	42.5	527.7	1,669.13	672.23	214,541	7,859	17.864
	45.0	556.0	1,633.12	708.28	224,017	8,206	17.784
	47.5	584.0	1,597.51	743.95	233,190	8,541	17.704
	50.0	611.6	1,562.28	779.11	242,027	8,866	17.625
	52.5	639.0	1,527.45	814.01	250,612	9,179	17.546
	55.0	666.0	1,493.01	848.41	258,877	9,482	17.468
	57.5	692.7	1,458.96	882.42	266,864	9,775	17.390
	60.0	719.1	1,425.31	916.05	274,581	10,058	17.313
550	14.3	188.9	2,135.17	240.64	86,383	3,142	18.946
	14.7	194.1	2,128.62	247.26	88,631	3,222	18.932
	15.1	199.2	2,122.08	253.76	90,829	3,303	18.919
	15.9	209.4	2,109.04	266.75	95,202	3,462	18.891
	16.3	214.5	2,102.53	273.25	97,380	3,542	18.877
	16.7	219.6	2,096.03	279.75	99,552	3,621	18.864
	17.1	224.7	2,089.55	286.24	101,714	3,699	18.850
	17.5	229.8	2,083.07	292.74	103,872	3,777	18.836
	18.3	240.0	2,070.15	305.73	108,167	3,933	18.809
558	31.8	406.4	1,858.13	517.71	174,431	6,343	18.355
	80.0	927.3	1,194.59	1,181.27	335,628	12,204	16.856
	3.2	43.8	2,389.67	55.80	21,470	769	19.615
	3.6	49.2	2,382.74	62.68	24,083	863	19.601
	4.0	54.7	2,375.83	69.68	26,734	957	19.587
	4.5	61.4	2,367.20	78.22	29,957	1,074	19.569
	5.0	68.2	2,358.58	86.88	33,214	1,190	19.552
	5.1	69.5	2,356.86	88.54	33,836	1,213	19.548
	5.6	76.3	2,348.26	97.20	37,079	1,329	19.531
558	5.9	80.3	2,343.11	102.29	38,979	1,398	19.520
	6.3	85.7	2,336.25	109.17	41,541	1,489	19.506
	6.4	87.1	2,334.54	110.96	42,207	1,512	19.503
	6.7	91.1	2,329.40	116.05	44,096	1,580	19.492
	7.1	96.5	2,322.57	122.93	46,643	1,671	19.478
	7.5	101.8	2,315.74	129.68	49,134	1,761	19.464
	7.9	107.2	2,308.92	136.56	51,666	1,851	19.450
	8.0	108.5	2,307.22	138.22	52,275	1,874	19.447
	8.3	112.5	2,302.11	143.31	54,142	1,941	19.436
558	8.7	117.9	2,295.31	150.19	56,660	2,030	19.423
	8.8	119.2	2,293.61	151.85	57,266	2,052	19.419
	9.1	123.2	2,288.52	156.94	59,122	2,119	19.409

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558	9.5	128.5	2,281.74	163.69	61,577	2,207	19.395
	9.9	133.8	2,274.98	170.45	64,028	2,295	19.381
	10.0	135.1	2,273.29	172.10	64,624	2,317	19.377
	10.3	139.1	2,268.22	177.20	66,468	2,383	19.367
	10.7	144.4	2,261.47	183.95	68,901	2,470	19.353
	11.0	148.4	2,256.42	189.04	70,732	2,535	19.343
	11.1	149.7	2,254.73	190.70	71,327	2,557	19.339
	11.5	155.0	2,248.00	197.45	73,746	2,643	19.325
	11.9	160.3	2,241.29	204.20	76,158	2,729	19.312
	12.0	161.6	2,239.61	205.86	76,750	2,751	19.308
	12.3	165.5	2,234.58	210.83	78,518	2,815	19.298
	12.5	168.2	2,231.23	214.27	79,742	2,857	19.291
	12.7	170.8	2,227.88	217.58	80,916	2,900	19.284
	13.1	176.0	2,221.19	224.20	83,259	2,985	19.270
	13.5	181.3	2,214.51	230.96	85,646	3,069	19.256
	13.9	186.5	2,207.85	237.58	87,975	3,153	19.243
	14.2	190.4	2,202.85	242.55	89,719	3,216	19.232
	14.3	191.7	2,201.19	244.20	90,297	3,237	19.229
	14.7	197.0	2,194.54	250.96	92,664	3,321	19.215
	15.1	202.2	2,187.90	257.58	94,972	3,404	19.201
	15.5	207.4	2,181.28	264.20	97,274	3,486	19.188
	15.9	212.6	2,174.66	270.83	99,572	3,568	19.174
	16.0	213.9	2,173.01	272.48	100,143	3,589	19.170
	16.3	217.8	2,168.05	277.45	101,860	3,650	19.160
	16.7	222.9	2,161.45	283.95	104,098	3,732	19.146
	17.1	228.1	2,154.87	290.57	106,372	3,813	19.133
	17.5	233.3	2,148.29	297.20	108,644	3,893	19.119
	18.3	243.6	2,135.17	310.32	113,116	4,054	19.092
	18.7	248.7	2,128.62	316.82	115,320	4,133	19.078
	19.1	253.8	2,122.08	323.31	117,514	4,213	19.064
	19.5	259.0	2,115.55	329.94	119,753	4,292	19.051
	19.8	262.8	2,110.67	334.78	121,379	4,351	19.041
	20.0	265.4	2,107.41	338.09	122,492	4,390	19.034
	20.6	273.0	2,097.66	347.77	125,729	4,507	19.013
	21.0	278.1	2,091.17	354.27	127,896	4,584	19.000
	21.4	283.2	2,084.69	360.76	130,053	4,661	18.986
	21.8	288.3	2,078.22	367.26	132,207	4,738	18.973
	22.2	293.3	2,071.76	373.63	134,308	4,815	18.959
	22.6	298.4	2,065.31	380.13	136,450	4,891	18.946
	23.0	303.5	2,058.87	386.62	138,581	4,966	18.932
	23.8	313.6	2,046.02	399.49	142,786	5,117	18.905

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
558	24.6	323.6	2,033.22	412.23	146,919	5,266	18.878
	24.8	326.1	2,030.02	415.41	147,947	5,303	18.871
	25.0	328.6	2,026.83	418.60	148,977	5,340	18.865
	25.4	333.6	2,020.45	424.97	151,028	5,414	18.851
	27.0	353.6	1,995.04	450.45	159,172	5,705	18.797
	28.6	373.4	1,969.78	475.67	167,128	5,990	18.744
	29.4	383.3	1,957.22	488.28	171,070	6,131	18.717
	30.2	393.1	1,944.69	500.76	174,944	6,270	18.691
	31.8	412.7	1,919.76	525.73	182,624	6,545	18.637
	32.6	422.4	1,907.35	538.09	186,386	6,681	18.611
	33.3	430.9	1,896.53	548.92	189,665	6,798	18.588
	34.9	450.2	1,871.91	573.50	197,034	7,063	18.535
	36.5	469.4	1,847.45	597.96	204,274	7,322	18.482
	38.1	488.5	1,823.15	622.29	211,382	7,576	18.430
	39.0	499.2	1,809.56	635.92	215,324	7,717	18.401
	40.0	511.0	1,794.51	650.96	219,637	7,872	18.368
	42.5	540.3	1,757.16	688.28	230,184	8,250	18.287
	45.0	569.3	1,720.21	725.22	240,405	8,617	18.206
	47.5	598.0	1,683.65	761.78	250,308	8,972	18.126
	50.0	626.4	1,647.48	797.96	259,900	9,315	18.047
565	5.9	81.4	2,403.55	103.69	40,520	1,434	19.768
	6.3	86.8	2,396.61	110.57	43,148	1,527	19.754
	6.7	92.3	2,389.67	117.58	45,819	1,621	19.740
	7.1	97.7	2,382.74	124.46	48,431	1,714	19.726
	7.5	103.1	2,375.83	131.34	51,036	1,807	19.712
	7.9	108.5	2,368.92	138.22	53,633	1,899	19.698
	8.3	114.0	2,362.02	145.22	56,270	1,991	19.684
	8.7	119.4	2,355.14	152.10	58,852	2,083	19.670
	9.1	124.8	2,348.26	158.98	61,427	2,174	19.656
	9.5	130.1	2,341.40	165.73	63,945	2,264	19.642
	9.9	135.5	2,334.54	172.61	66,505	2,355	19.628
	10.3	140.9	2,327.69	179.49	69,058	2,445	19.614
	10.7	146.3	2,320.86	186.37	71,604	2,534	19.601
	11.1	151.6	2,314.03	193.12	74,093	2,623	19.587
	11.5	157.0	2,307.22	200.00	76,624	2,712	19.573
	11.9	162.3	2,300.41	206.75	79,098	2,800	19.559
	12.3	167.7	2,293.61	213.63	81,614	2,888	19.545
	12.7	173.0	2,286.83	220.38	84,074	2,976	19.531
	13.1	178.3	2,280.05	227.13	86,527	3,063	19.518
	13.5	183.6	2,273.29	233.89	88,976	3,150	19.504

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565	13.9	188.9	2,266.53	240.64	91,414	3,236	19.490
	14.3	194.2	2,259.78	247.39	93,846	3,322	19.476
	14.7	199.5	2,253.05	254.14	96,270	3,408	19.462
	15.1	204.8	2,246.32	260.89	98,688	3,493	19.449
	15.5	210.1	2,239.61	267.64	101,098	3,578	19.435
	15.9	215.3	2,232.90	274.27	103,456	3,662	19.421
	16.3	220.6	2,226.21	281.02	105,852	3,746	19.408
	16.7	225.8	2,219.52	287.64	108,193	3,830	19.394
	17.1	231.1	2,212.85	294.39	110,575	3,914	19.380
	17.5	236.3	2,206.18	301.02	112,906	3,996	19.366
	17.9	241.5	2,199.53	307.64	115,226	4,079	19.353
	18.3	246.7	2,192.88	314.27	117,543	4,161	19.339
	18.7	251.9	2,186.25	320.89	119,850	4,243	19.325
	19.1	257.1	2,179.62	327.52	122,153	4,325	19.312
	19.8	266.2	2,168.05	339.11	126,164	4,466	19.288
	20.6	276.6	2,154.87	352.36	130,724	4,627	19.261
	21.0	281.7	2,148.29	358.85	132,944	4,707	19.247
	21.4	286.9	2,141.72	365.48	135,209	4,786	19.234
	21.8	292.0	2,135.17	371.97	137,416	4,865	19.220
	22.2	297.2	2,128.62	378.60	139,668	4,944	19.206
568	5.9	81.8	2,429.69	104.20	41,158	1,449	19.874
	11.5	157.8	2,332.83	201.02	77,851	2,742	19.679
	11.9	163.2	2,325.98	207.90	80,402	2,831	19.665
	13.0	177.9	2,307.22	226.62	87,304	3,075	19.627
	23.6	316.9	2,130.25	403.69	149,834	5,275	19.265
	24.6	329.7	2,113.92	420.00	155,342	5,469	19.231
	25.8	345.0	2,094.41	439.49	161,868	5,699	19.191
	27.0	360.2	2,074.99	458.85	168,289	5,926	19.151
	28.2	375.4	2,055.66	478.22	174,657	6,150	19.110
	29.4	390.5	2,036.42	497.45	180,919	6,371	19.070
	30.6	405.6	2,017.26	516.69	187,129	6,588	19.030
	31.0	410.5	2,010.90	522.93	189,124	6,660	19.017
	31.8	420.5	1,998.20	535.67	193,191	6,803	18.990
	33.0	435.4	1,979.23	554.65	199,198	7,014	18.951
	34.2	450.2	1,960.35	573.50	205,107	7,222	18.911
	38.1	497.9	1,899.62	634.27	223,775	7,879	18.783
	38.5	502.8	1,893.44	640.51	225,662	7,945	18.770
575	22.0	300.0	2,214.51	382.17	146,320	5,090	19.566

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576	23.8	324.1	2,192.88	412.87	157,660	5,474	19.541
	25.4	344.9	2,166.40	439.36	166,850	5,793	19.487
584	6.4	91.2	2,562.51	116.18	48,456	1,659	20.422
	50.0	658.5	1,839.84	838.85	301,625	10,329	18.962
597	4.0	58.5	2,724.71	74.52	32,758	1,097	20.966
	4.5	65.8	2,715.46	83.82	36,784	1,231	20.948
	5.1	74.4	2,704.39	94.78	41,510	1,391	20.927
	5.6	81.7	2,695.18	104.08	45,507	1,524	20.910
	5.9	86.0	2,689.66	109.55	47,851	1,603	20.899
	6.4	93.2	2,680.48	118.73	51,774	1,735	20.882
	6.7	97.5	2,674.98	124.20	54,104	1,813	20.871
	7.1	103.3	2,667.65	131.59	57,247	1,918	20.857
	7.5	109.0	2,660.33	138.85	60,325	2,022	20.843
	7.9	114.8	2,653.02	146.24	63,450	2,125	20.829
	8.3	120.5	2,645.72	153.50	66,511	2,228	20.815
	8.7	126.2	2,638.43	160.76	69,563	2,331	20.801
	9.1	131.9	2,631.16	168.03	72,612	2,433	20.787
	9.5	137.6	2,623.89	175.29	75,648	2,535	20.773
	9.9	143.3	2,616.63	182.55	78,676	2,636	20.760
	10.3	149.0	2,609.38	189.81	81,695	2,737	20.746
	10.7	154.7	2,602.14	197.07	84,706	2,838	20.732
	11.1	160.4	2,594.91	204.33	87,709	2,938	20.718
	11.5	166.1	2,587.70	211.59	90,704	3,038	20.704
	11.9	171.7	2,580.49	218.73	93,639	3,137	20.690
	12.3	177.4	2,573.29	225.99	96,618	3,236	20.676
	12.7	183.0	2,566.10	233.12	99,533	3,335	20.663
	13.1	188.6	2,558.92	240.25	102,440	3,433	20.649
	13.5	194.3	2,551.76	247.52	105,399	3,530	20.635
	14.3	205.5	2,537.45	261.78	111,173	3,724	20.607
	15.1	216.7	2,523.19	276.05	116,919	3,917	20.580
	15.9	227.9	2,508.96	290.32	122,635	4,108	20.552
	16.7	239.0	2,494.78	304.46	128,264	4,297	20.525
	17.5	250.1	2,480.63	318.60	133,862	4,484	20.497
	18.3	261.2	2,466.53	332.74	139,430	4,670	20.470
	19.1	272.2	2,452.46	346.75	144,913	4,855	20.443
	19.8	281.9	2,440.19	359.11	149,727	5,015	20.419
	20.6	292.8	2,426.20	372.99	155,099	5,196	20.391
	21.4	303.8	2,412.25	387.01	160,500	5,376	20.364
	22.2	314.7	2,398.34	400.89	165,812	5,555	20.337

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597	23.0	325.6	2,384.47	414.78	171,099	5,732	20.310
	23.8	336.4	2,370.65	428.54	176,304	5,907	20.283
	24.6	347.3	2,356.86	442.42	181,529	6,081	20.256
	25.4	358.1	2,343.11	456.18	186,676	6,253	20.229
	27.0	379.5	2,315.74	483.44	196,778	6,593	20.175
	28.6	400.9	2,288.52	510.70	206,767	6,927	20.121
	29.4	411.5	2,274.98	524.20	211,668	7,092	20.094
	30.2	422.1	2,261.47	537.71	216,545	7,255	20.067
	31.8	443.3	2,234.58	564.71	226,210	7,577	20.014
	33.3	462.9	2,209.51	589.68	235,037	7,874	19.964
	34.9	483.8	2,182.93	616.31	244,347	8,186	19.911
	36.5	504.5	2,156.51	642.68	253,451	8,491	19.858
	38.1	525.2	2,130.25	669.04	262,448	8,791	19.805
	40.0	549.5	2,099.28	700.00	272,868	9,141	19.743
	42.5	581.2	2,058.87	740.38	286,228	9,589	19.662
	45.0	612.6	2,018.86	780.38	299,206	10,024	19.580
	47.5	643.7	1,979.23	820.00	311,812	10,446	19.500
	50.0	674.5	1,940.00	859.24	324,051	10,856	19.420
	52.5	705.0	1,901.16	898.09	335,927	11,254	19.340
	55.0	735.2	1,862.72	936.56	347,451	11,639	19.260
	57.5	765.0	1,824.67	974.52	358,583	12,013	19.182
	60.0	794.6	1,787.01	1,012.23	369,425	12,376	19.103
	62.5	823.9	1,749.74	1,049.55	379,933	12,727	19.026
600	4.5	66.1	2,743.24	84.20	37,326	1,244	21.054
	5.1	74.8	2,732.12	95.29	42,158	1,406	21.033
	5.6	82.1	2,722.86	104.59	46,195	1,540	21.016
	5.9	86.4	2,717.31	110.06	48,563	1,620	21.005
	6.4	93.7	2,708.08	119.36	52,578	1,752	20.988
	6.7	98.0	2,702.55	124.84	54,937	1,832	20.977
	7.1	103.8	2,695.18	132.23	58,112	1,937	20.963
	7.5	109.6	2,687.83	139.62	61,278	2,042	20.949
	7.9	115.4	2,680.48	147.01	64,435	2,147	20.935
	8.3	121.1	2,673.14	154.27	67,527	2,251	20.921
	8.7	126.9	2,665.82	161.66	70,668	2,355	20.907
	9.1	132.6	2,658.50	168.92	73,743	2,458	20.893
	9.5	138.3	2,651.20	176.18	76,810	2,561	20.880
	9.9	144.1	2,643.90	183.57	79,925	2,664	20.866
	10.3	149.8	2,636.61	190.83	82,976	2,766	20.852
	10.7	155.5	2,629.34	198.09	86,018	2,867	20.838
	11.1	161.2	2,622.07	205.35	89,052	2,969	20.824



Technical data of tubes

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600	11.5	166.9	2,614.82	212.61	92,077	3,069	20.810
	11.9	172.6	2,607.57	219.87	95,095	3,170	20.796
	12.3	178.3	2,600.33	227.13	98,104	3,270	20.782
	12.7	183.9	2,593.11	234.27	101,053	3,369	20.769
	13.1	189.6	2,585.89	241.53	104,046	3,468	20.755
	13.5	195.3	2,578.69	248.79	107,031	3,567	20.741
	14.3	206.6	2,564.31	263.18	112,920	3,763	20.713
	15.1	217.8	2,549.97	277.45	118,726	3,958	20.686
	15.9	229.0	2,535.67	291.72	124,501	4,151	20.658
	16.7	240.2	2,521.41	305.99	130,244	4,342	20.631
	17.5	251.4	2,507.19	320.25	135,951	4,532	20.603
	18.3	262.5	2,493.01	334.39	141,576	4,720	20.576
	19.1	273.6	2,478.87	348.54	147,175	4,906	20.548
	19.8	283.3	2,466.53	360.89	152,036	5,068	20.525
	20.6	294.4	2,452.46	375.03	157,573	5,252	20.497
	21.4	305.4	2,438.44	389.04	163,025	5,434	20.470
	22.2	316.3	2,424.45	402.93	168,397	5,614	20.443
	23.0	327.3	2,410.51	416.94	173,790	5,793	20.416
	23.8	338.2	2,396.61	430.83	179,103	5,970	20.389
	25.4	359.9	2,368.92	458.47	189,583	6,320	20.334
	27.0	381.5	2,341.40	485.99	199,899	6,664	20.281
	28.6	403.0	2,314.03	513.38	210,047	7,002	20.227
	29.4	413.7	2,300.41	527.01	215,052	7,169	20.200
	30.2	424.4	2,286.83	540.64	220,030	7,334	20.173
	31.8	445.6	2,259.78	567.64	229,797	7,660	20.120
	33.3	465.4	2,234.58	592.87	238,821	7,961	20.070
	34.9	486.4	2,207.85	619.62	248,279	8,276	20.017
	36.5	507.2	2,181.28	646.11	257,527	8,585	19.964
	38.1	528.0	2,154.87	672.61	266,676	8,889	19.911
	40.0	552.4	2,123.71	703.69	277,254	9,242	19.849
	42.5	584.3	2,083.07	744.33	290,859	9,696	19.767
	45.0	615.9	2,042.82	784.59	304,078	10,136	19.686
	47.5	647.2	2,002.96	824.46	316,915	10,564	19.605
	50.0	678.2	1,963.49	863.95	329,381	10,979	19.525
	52.5	708.9	1,924.42	903.06	341,484	11,382	19.445
	55.0	739.2	1,885.74	941.66	353,181	11,773	19.366
	57.5	769.3	1,847.45	980.00	364,575	12,152	19.287
	60.0	799.0	1,809.56	1,017.83	375,579	12,520	19.209
609	4.5	67.1	2,827.43	85.48	39,047	1,282	21.372
	5.0	74.5	2,818.01	94.90	43,279	1,421	21.355

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609	5.1	76.0	2,816.13	96.82	44,140	1,449	21.351
	5.6	83.3	2,806.73	106.11	48,296	1,587	21.334
	5.8	86.3	2,802.98	109.94	50,007	1,642	21.327
	5.9	87.8	2,801.10	111.85	50,859	1,669	21.323
	6.0	89.2	2,799.23	113.63	51,651	1,697	21.320
	6.3	93.6	2,793.60	119.24	54,148	1,779	21.309
	6.4	95.1	2,791.73	121.15	54,997	1,806	21.306
	6.7	99.5	2,786.11	126.75	57,483	1,888	21.295
	6.9	102.5	2,782.37	130.57	59,176	1,943	21.288
	7.1	105.4	2,778.63	134.27	60,813	1,997	21.281
	7.5	111.3	2,771.17	141.78	64,130	2,105	21.267
	7.9	117.1	2,763.71	149.17	67,385	2,213	21.254
	8.0	118.6	2,761.84	151.08	68,225	2,240	21.250
	8.1	120.0	2,759.98	152.87	69,011	2,267	21.247
	8.3	123.0	2,756.26	156.69	70,689	2,321	21.240
	8.5	125.9	2,752.54	160.38	72,306	2,374	21.233
	8.6	127.3	2,750.68	162.17	73,089	2,401	21.229
	8.7	128.8	2,748.82	164.08	73,925	2,428	21.225
	8.8	130.3	2,746.96	165.99	74,761	2,454	21.222
	9.0	133.2	2,743.24	169.68	76,373	2,508	21.215
	9.1	134.6	2,741.39	171.46	77,149	2,534	21.212
	9.5	140.5	2,733.97	178.98	80,427	2,640	21.198
	9.7	143.4	2,730.26	182.68	82,036	2,693	21.191
	9.9	146.3	2,726.56	186.37	83,638	2,746	21.184
	10.0	147.7	2,724.71	188.15	84,409	2,773	21.180
	10.3	152.1	2,719.16	193.76	86,840	2,851	21.170
	10.7	157.9	2,711.77	201.15	90,034	2,956	21.156
	11.0	162.2	2,706.24	206.62	92,391	3,035	21.146
	11.1	163.7	2,704.39	208.54	93,219	3,061	21.142
	11.2	165.1	2,702.55	210.32	93,984	3,087	21.139
	11.3	166.6	2,700.71	212.23	94,807	3,113	21.135
	11.5	169.5	2,697.02	215.92	96,392	3,165	21.128
	11.9	175.2	2,689.66	223.18	99,502	3,268	21.114
	12.0	176.7	2,687.83	225.10	100,325	3,294	21.111
	12.3	181.0	2,682.32	230.57	102,662	3,372	21.101
	12.5	183.9	2,678.65	234.27	104,241	3,423	21.094
	12.7	186.8	2,674.98	237.96	105,813	3,474	21.087
	13.1	192.5	2,667.65	245.22	108,899	3,577	21.073
	13.5	198.3	2,660.33	252.61	112,033	3,679	21.059
	13.9	204.0	2,653.02	259.87	115,102	3,780	21.045
	14.0	205.4	2,651.20	261.66	115,857	3,805	21.042

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
609	14.2	208.3	2,647.55	265.35	117,414	3,856	21.035
	14.3	209.7	2,645.72	267.13	118,163	3,881	21.031
	14.5	212.6	2,642.08	270.83	119,721	3,931	21.025
	14.7	215.5	2,638.43	274.52	121,272	3,982	21.018
	15.0	219.7	2,632.97	279.87	123,514	4,057	21.007
	15.1	221.2	2,631.16	281.78	124,316	4,082	21.004
	15.5	226.9	2,623.89	289.04	127,352	4,182	20.990
	15.7	229.7	2,620.26	292.61	128,840	4,232	20.983
	15.9	232.6	2,616.63	296.31	130,384	4,281	20.976
	16.0	234.0	2,614.82	298.09	131,124	4,306	20.973
	16.3	238.3	2,609.38	303.57	133,403	4,380	20.962
	16.7	243.9	2,602.14	310.70	136,358	4,479	20.949
	17.0	248.2	2,596.72	316.18	138,626	4,552	20.938
	17.1	249.6	2,594.91	317.96	139,361	4,577	20.935
	17.5	255.3	2,587.70	325.22	142,356	4,675	20.921
	17.8	259.5	2,582.29	330.57	144,556	4,748	20.911
	17.9	260.9	2,580.49	332.36	145,291	4,772	20.908
	18.0	262.4	2,578.69	334.27	146,078	4,796	20.904
	18.2	265.2	2,575.09	337.83	147,537	4,845	20.897
	18.3	266.6	2,573.29	339.62	148,270	4,869	20.894
	18.7	272.2	2,566.10	346.75	151,185	4,966	20.880
	18.9	275.1	2,562.51	350.45	152,698	5,014	20.873
	19.0	276.5	2,560.72	352.23	153,423	5,038	20.870
	19.1	277.9	2,558.92	354.01	154,148	5,062	20.867
	19.5	283.5	2,551.76	361.15	157,051	5,157	20.853
	19.7	286.3	2,548.18	364.71	158,495	5,205	20.846
	19.8	287.7	2,546.39	366.50	159,221	5,229	20.843
	20.0	290.5	2,542.81	370.06	160,662	5,277	20.836
	20.6	298.9	2,532.10	380.76	164,983	5,419	20.815
	21.0	304.5	2,524.97	387.90	167,856	5,513	20.802
	21.4	310.1	2,517.85	395.03	170,718	5,607	20.788
	21.8	315.7	2,510.74	402.17	173,576	5,700	20.774
	22.2	321.3	2,503.64	409.30	176,422	5,793	20.761
	22.8	329.6	2,493.01	419.87	180,623	5,932	20.740
	23.0	332.4	2,489.47	423.44	182,040	5,978	20.734
	23.8	343.5	2,475.34	437.58	187,626	6,161	20.707
	24.6	354.5	2,461.25	451.59	193,127	6,343	20.679
	25.0	360.1	2,454.22	458.73	195,924	6,434	20.666
	25.4	365.6	2,447.20	465.73	198,654	6,523	20.652
	25.8	371.1	2,440.19	472.74	201,380	6,613	20.639
	26.0	373.8	2,436.69	476.18	202,713	6,658	20.632

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
609	26.4	379.3	2,429.69	483.18	205,424	6,747	20.619
	27.0	387.5	2,419.22	493.63	209,455	6,879	20.598
	27.8	398.5	2,405.29	507.64	214,837	7,055	20.571
	28.6	409.4	2,391.40	521.53	220,139	7,229	20.545
	29.1	416.2	2,382.74	530.19	223,429	7,337	20.528
	29.4	420.2	2,377.56	535.29	225,357	7,402	20.518
	29.6	423.0	2,374.10	538.85	226,708	7,444	20.511
	30.0	428.4	2,367.20	545.73	229,303	7,530	20.498
	30.2	431.1	2,363.75	549.17	230,598	7,573	20.491
	30.9	440.5	2,351.70	561.15	235,090	7,721	20.468
	31.2	444.6	2,346.54	566.37	237,044	7,784	20.458
	31.8	452.7	2,336.25	576.69	240,891	7,910	20.438
	33.3	472.8	2,310.62	602.29	250,356	8,222	20.388
	34.9	494.1	2,283.44	629.43	260,276	8,548	20.334
	36.5	515.3	2,256.42	656.43	270,029	8,869	20.282
	38.1	536.4	2,229.55	683.31	279,626	9,184	20.229
	39.0	548.2	2,214.51	698.34	284,941	9,358	20.199
	40.0	561.3	2,197.86	715.03	290,804	9,550	20.166
	42.5	593.8	2,156.51	756.43	305,152	10,021	20.085
	45.0	625.9	2,115.55	797.32	319,049	10,478	20.003
	46.0	638.7	2,099.28	813.63	324,521	10,657	19.971
	47.5	657.8	2,074.99	837.96	332,606	10,922	19.922
	50.0	689.3	2,034.82	878.09	345,727	11,354	19.842
	52.5	720.5	1,995.04	917.83	358,468	11,773	19.762
	55.0	751.5	1,955.65	957.32	370,891	12,179	19.683
	57.5	782.1	1,916.65	996.31	382,905	12,574	19.604
	60.0	812.4	1,878.05	1,034.90	394,557	12,957	19.525
	62.5	842.4	1,839.84	1,073.12	405,865	13,328	19.447
	65.0	872.0	1,802.02	1,110.83	416,785	13,688	19.370
	67.5	901.4	1,764.60	1,148.28	427,416	14,037	19.293
	70.0	930.5	1,727.57	1,185.35	437,722	14,375	19.216
	80.0	1,043.7	1,583.37	1,329.55	475,715	15,623	18.915
	85.0	1,098.4	1,513.63	1,399.24	492,884	16,187	18.768
611	17.0	249.0	2,614.82	317.20	140,014	4,584	21.009
	26.4	380.6	2,447.20	484.84	207,544	6,794	20.689
613	15.1	222.7	2,667.65	283.69	126,849	4,138	21.145
614	12.3	182.5	2,728.41	232.48	105,254	3,429	21.277

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615	17.5	257.9	2,642.08	328.54	146,739	4,771	21.133
620	4.0	60.8	2,941.66	77.45	36,738	1,184	21.779
	4.5	68.3	2,932.05	87.01	41,206	1,329	21.761
	5.1	77.3	2,920.55	98.47	46,543	1,502	21.740
	5.6	84.9	2,910.98	108.15	51,036	1,645	21.723
	5.9	89.4	2,905.24	113.89	53,693	1,731	21.712
	6.4	96.8	2,895.70	123.31	58,040	1,873	21.695
	6.7	101.3	2,889.98	129.04	60,678	1,958	21.684
	7.1	107.3	2,882.36	136.69	64,193	2,071	21.670
	7.5	113.3	2,874.75	144.33	67,693	2,183	21.656
	7.9	119.3	2,867.15	151.97	71,184	2,295	21.642
	8.3	125.2	2,859.57	159.49	74,611	2,407	21.628
	8.7	131.2	2,851.99	167.13	78,084	2,518	21.614
	9.1	137.1	2,844.42	174.65	81,492	2,629	21.600
	9.5	143.0	2,836.86	182.17	84,891	2,739	21.587
	9.9	149.0	2,829.32	189.81	88,338	2,849	21.573
	10.3	154.9	2,821.78	197.32	91,714	2,958	21.559
	10.7	160.8	2,814.25	204.84	95,087	3,067	21.545
	11.1	166.7	2,806.73	212.36	98,451	3,175	21.531
	11.5	172.6	2,799.23	219.87	101,801	3,283	21.517
	11.9	178.5	2,791.73	227.39	105,147	3,391	21.503
	12.3	184.3	2,784.24	234.78	108,425	3,498	21.489
	12.7	190.2	2,776.77	242.29	111,749	3,605	21.476
	13.1	196.1	2,769.30	249.81	115,069	3,711	21.462
	13.5	201.9	2,761.84	257.20	118,320	3,817	21.448
	13.9	207.8	2,754.40	264.71	121,618	3,923	21.434
	14.3	213.6	2,746.96	272.10	124,852	4,028	21.420
	14.7	219.4	2,739.53	279.49	128,078	4,132	21.406
	15.1	225.3	2,732.12	287.01	131,354	4,236	21.393
	15.5	231.1	2,724.71	294.39	134,559	4,340	21.379
	15.9	236.9	2,717.31	301.78	137,759	4,443	21.365
	16.0	238.3	2,715.46	303.57	138,531	4,469	21.362
	16.3	242.7	2,709.93	309.17	140,950	4,546	21.351
	16.7	248.5	2,702.55	316.56	144,134	4,649	21.338
	17.5	260.0	2,687.83	331.21	150,416	4,853	21.310
	18.3	271.6	2,673.14	345.99	156,724	5,055	21.283
	18.7	277.3	2,665.82	353.25	159,807	5,155	21.269
	19.1	283.1	2,658.50	360.64	162,940	5,255	21.255
	19.5	288.8	2,651.20	367.90	166,006	5,355	21.242
	19.8	293.1	2,645.72	373.38	168,316	5,429	21.231

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620	20.6	304.5	2,631.16	387.90	174,412	5,626	21.204
	21.0	310.2	2,623.89	395.16	177,448	5,724	21.190
	21.4	315.9	2,616.63	402.42	180,475	5,822	21.177
	21.6	318.8	2,613.00	406.11	182,013	5,871	21.170
	21.8	321.6	2,609.38	409.68	183,495	5,919	21.163
	22.2	327.3	2,602.14	416.94	186,506	6,016	21.149
	22.6	333.0	2,594.91	424.20	189,510	6,113	21.136
	23.0	338.6	2,587.70	431.34	192,452	6,209	21.122
	23.4	344.3	2,580.49	438.60	195,440	6,304	21.109
	23.8	349.9	2,573.29	445.73	198,362	6,399	21.095
	24.2	355.6	2,566.10	452.99	201,333	6,494	21.082
	24.6	361.2	2,558.92	460.13	204,244	6,589	21.068
	25.4	372.5	2,544.60	474.52	210,090	6,776	21.041
	27.0	394.9	2,516.07	503.06	221,584	7,147	20.987
	28.6	417.1	2,487.70	531.34	232,841	7,511	20.933
	29.4	428.2	2,473.57	545.48	238,424	7,691	20.906
	30.2	439.3	2,459.49	559.62	243,978	7,870	20.879
	31.8	461.3	2,431.44	587.64	254,882	8,222	20.826
	33.3	481.8	2,405.29	613.76	264,934	8,547	20.776
	34.0	491.4	2,393.14	625.99	269,608	8,696	20.753
625	34.9	503.6	2,377.56	641.53	275,505	8,887	20.723
	36.5	525.2	2,349.98	669.04	285,851	9,222	20.670
	38.1	546.8	2,322.57	696.56	296,090	9,551	20.617
	40.0	572.2	2,290.22	728.92	307,969	9,934	20.554
	42.5	605.3	2,248.00	771.08	323,191	10,425	20.472
	45.0	638.1	2,206.18	812.87	338,002	10,904	20.391
	47.5	670.7	2,164.75	854.39	352,449	11,368	20.310
	50.0	702.9	2,123.71	895.41	366,447	11,820	20.229
	4.0	61.3	2,989.92	78.09	37,645	1,204	21.956
	4.5	68.9	2,980.24	87.77	42,244	1,351	21.938
	5.1	78.0	2,968.64	99.36	47,730	1,527	21.917
	5.6	85.5	2,958.99	108.92	52,239	1,672	21.899
	5.9	90.1	2,953.21	114.78	54,997	1,759	21.889
	6.4	97.6	2,943.58	124.33	59,477	1,904	21.871
	6.7	102.2	2,937.82	130.19	62,221	1,990	21.861
	7.1	108.2	2,930.13	137.83	65,788	2,105	21.847
	7.5	114.2	2,922.46	145.48	69,351	2,219	21.833
	7.9	120.2	2,914.80	153.12	72,899	2,333	21.819
	8.3	126.2	2,907.15	160.76	76,439	2,447	21.805
	8.7	132.2	2,899.51	168.41	79,974	2,560	21.791

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Technical data of tubes

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625	9.1	138.2	2,891.88	176.05	83,495	2,672	21.777
	9.5	144.2	2,884.26	183.69	87,007	2,784	21.763
	9.9	150.2	2,876.65	191.34	90,515	2,896	21.749
	10.3	156.1	2,869.05	198.85	93,947	3,007	21.735
	10.7	162.1	2,861.46	206.50	97,437	3,118	21.722
	11.1	168.1	2,853.88	214.14	100,913	3,228	21.708
	11.5	174.0	2,846.31	221.66	104,323	3,338	21.694
	11.9	179.9	2,838.75	229.17	107,719	3,448	21.680
	12.3	185.9	2,831.20	236.82	111,173	3,557	21.666
	12.7	191.8	2,823.66	244.33	114,552	3,665	21.652
	13.1	197.7	2,816.13	251.85	117,927	3,773	21.638
	13.5	203.6	2,808.61	259.36	121,288	3,881	21.625
	14.3	215.4	2,793.60	274.39	127,989	4,095	21.597
	15.1	227.1	2,778.63	289.30	134,599	4,308	21.569
	15.9	238.8	2,763.71	304.20	141,170	4,518	21.542
	16.7	250.5	2,748.82	319.11	147,711	4,727	21.514
	17.5	262.2	2,733.97	334.01	154,213	4,935	21.487
	18.3	273.8	2,719.16	348.79	160,626	5,140	21.459
	19.1	285.4	2,704.39	363.57	167,006	5,344	21.432
	19.8	295.5	2,691.50	376.43	172,527	5,521	21.408
	20.6	307.1	2,676.81	391.21	178,843	5,722	21.381
	22.2	330.0	2,647.55	420.38	191,200	6,119	21.326
	23.0	341.5	2,632.97	435.03	197,358	6,315	21.299
	23.8	352.9	2,618.44	449.55	203,426	6,509	21.272
	24.6	364.3	2,603.95	464.08	209,466	6,702	21.245
	25.4	375.6	2,589.50	478.47	215,410	6,893	21.218
	27.0	398.2	2,560.72	507.26	227,210	7,270	21.164
	28.6	420.7	2,532.10	535.92	238,827	7,642	21.110
	29.4	431.8	2,517.85	550.06	244,504	7,825	21.083
	30.2	443.0	2,503.64	564.33	250,209	8,007	21.056
	31.8	465.2	2,475.34	592.61	261,413	8,365	21.002
	33.3	485.9	2,448.95	618.98	271,746	8,696	20.952
	34.9	507.9	2,420.96	647.01	282,611	9,043	20.899
	36.5	529.7	2,393.14	674.78	293,246	9,384	20.846
	38.1	551.5	2,365.47	702.55	303,768	9,720	20.793
	40.0	577.1	2,332.83	735.16	315,958	10,110	20.731
	42.5	610.5	2,290.22	777.71	331,608	10,612	20.649
	45.0	643.7	2,248.00	820.00	346,886	11,100	20.567
	47.5	676.5	2,206.18	861.78	361,692	11,574	20.486
	50.0	709.0	2,164.75	903.18	376,090	12,035	20.406
	52.5	741.2	2,123.71	944.20	390,087	12,483	20.325

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625	55.0	773.2	2,083.07	984.97	403,745	12,919	20.246
	57.5	804.8	2,042.82	1,025.22	416,960	13,342	20.166
	60.0	836.0	2,002.96	1,064.97	429,749	13,752	20.088
	62.5	867.0	1,963.49	1,104.46	442,215	14,151	20.009
630	4.5	69.4	3,028.81	88.41	43,240	1,373	22.115
	5.1	78.6	3,017.12	100.13	48,879	1,552	22.094
	5.6	86.2	3,007.39	109.81	53,520	1,700	22.076
	5.9	90.8	3,001.56	115.67	56,322	1,788	22.066
	6.3	96.9	2,993.80	123.44	60,029	1,906	22.052
	6.4	98.4	2,991.86	125.35	60,939	1,935	22.048
	6.7	103.0	2,986.05	131.21	63,727	2,023	22.038
	7.1	109.1	2,978.30	138.98	67,415	2,140	22.024
	7.5	115.1	2,970.57	146.62	71,031	2,256	22.010
	7.9	121.2	2,962.85	154.39	74,700	2,372	21.996
	8.0	122.7	2,960.92	156.31	75,605	2,400	21.992
	8.3	127.3	2,955.13	162.17	78,365	2,487	21.982
	8.7	133.3	2,947.43	169.81	81,952	2,602	21.968
	8.8	134.8	2,945.51	171.72	82,848	2,630	21.964
	9.0	137.8	2,941.66	175.54	84,637	2,688	21.957
	9.1	139.3	2,939.74	177.45	85,531	2,716	21.954
	9.5	145.4	2,932.05	185.22	89,163	2,830	21.940
	9.9	151.4	2,924.38	192.87	92,728	2,944	21.926
	10.0	152.9	2,922.46	194.78	93,616	2,972	21.923
	10.3	157.4	2,916.72	200.51	96,278	3,057	21.912
	10.7	163.4	2,909.06	208.15	99,820	3,169	21.898
	11.1	169.4	2,901.42	215.80	103,358	3,282	21.884
	11.5	175.4	2,893.79	223.44	106,881	3,393	21.871
	11.9	181.4	2,886.17	231.08	110,395	3,505	21.857
	12.0	182.9	2,884.26	232.99	111,273	3,532	21.853
	12.3	187.4	2,878.55	238.73	113,905	3,615	21.843
	12.5	190.4	2,874.75	242.55	115,655	3,671	21.836
	12.7	193.3	2,870.95	246.24	117,340	3,726	21.829
	13.0	197.8	2,865.26	251.97	119,956	3,808	21.819
	13.1	199.3	2,863.36	253.89	120,832	3,836	21.815
	13.5	205.3	2,855.78	261.53	124,310	3,945	21.801
	13.9	211.2	2,848.20	269.04	127,717	4,055	21.787
	14.3	217.1	2,840.64	276.56	131,121	4,163	21.774
	14.7	223.1	2,833.09	284.20	134,572	4,271	21.760
	15.1	229.0	2,825.55	291.72	137,958	4,379	21.746
	15.5	234.9	2,818.01	299.24	141,335	4,487	21.732

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
630	15.9	240.8	2,810.49	306.75	144,698	4,594	21.718
	16.0	242.3	2,808.61	308.66	145,553	4,620	21.715
	16.3	246.7	2,802.98	314.27	148,058	4,700	21.705
	16.7	252.6	2,795.48	321.78	151,404	4,806	21.691
	17.5	264.3	2,780.50	336.69	158,018	5,017	21.663
	18.3	276.1	2,765.57	351.72	164,654	5,226	21.636
	19.1	287.8	2,750.68	366.62	171,195	5,434	21.609
	19.8	298.0	2,737.68	379.62	176,873	5,614	21.585
	20.6	309.6	2,722.86	394.39	183,289	5,819	21.557
	21.4	321.2	2,708.08	409.17	189,677	6,021	21.530
	22.2	332.8	2,693.34	423.95	196,031	6,222	21.503
	23.0	344.3	2,678.65	438.60	202,292	6,422	21.476
	23.8	355.8	2,663.99	453.25	208,520	6,620	21.448
	25.0	373.0	2,642.08	475.16	217,772	6,913	21.408
	25.4	378.7	2,634.79	482.42	220,819	7,011	21.394
	27.0	401.5	2,605.76	511.46	232,930	7,395	21.340
	28.6	424.2	2,576.89	540.38	244,860	7,773	21.286
	30.2	446.7	2,548.18	569.04	256,546	8,145	21.232
	31.8	469.1	2,519.63	597.58	268,055	8,510	21.179
	33.3	490.0	2,493.01	624.20	278,674	8,847	21.129
	34.9	512.2	2,464.77	652.48	289,833	9,201	21.076
	36.5	534.2	2,436.69	680.51	300,764	9,549	21.023
	38.1	556.2	2,408.77	708.54	311,578	9,890	20.970
	40.0	582.0	2,375.83	741.40	324,084	10,289	20.907
	42.5	615.8	2,332.83	784.46	340,223	10,800	20.825
	45.0	649.2	2,290.22	827.01	355,873	11,298	20.743
	47.5	682.4	2,248.00	869.30	371,150	11,782	20.662
	50.0	715.2	2,206.18	911.08	385,956	12,252	20.582
	52.5	747.7	2,164.75	952.48	400,354	12,710	20.501
	55.0	779.9	2,123.71	993.50	414,352	13,154	20.422
	57.5	811.8	2,083.07	1,034.14	427,956	13,586	20.342
	60.0	843.4	2,042.82	1,074.39	441,171	14,006	20.263
645	4.0	63.2	3,186.90	80.51	41,352	1,283	22.663
	4.5	71.1	3,176.90	90.57	46,447	1,440	22.645
	5.1	80.5	3,164.92	102.55	52,493	1,627	22.624
	5.5	86.7	3,156.95	110.45	56,466	1,752	22.610
	6.4	100.8	3,139.05	128.41	65,465	2,030	22.579
	6.7	105.5	3,133.10	134.39	68,450	2,122	22.568
	7.1	111.7	3,125.16	142.29	72,384	2,244	22.554
	7.5	117.9	3,117.24	150.19	76,308	2,366	22.540



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
645	7.9	124.1	3,109.33	158.09	80,223	2,488	22.526
	8.3	130.3	3,101.43	165.99	84,127	2,609	22.512
	8.7	136.5	3,093.54	173.89	88,022	2,730	22.498
	9.1	142.7	3,085.66	181.78	91,902	2,850	22.484
	9.5	148.9	3,077.78	189.68	95,777	2,970	22.470
	9.9	155.1	3,069.92	197.58	99,642	3,089	22.456
	10.3	161.2	3,062.07	205.35	103,432	3,208	22.442
	10.7	167.4	3,054.23	213.25	107,278	3,326	22.429
	11.1	173.5	3,046.40	221.02	111,049	3,444	22.415
	11.5	179.7	3,038.58	228.92	114,876	3,561	22.401
	12.3	191.9	3,022.96	244.46	122,371	3,795	22.373
	12.7	198.0	3,015.17	252.23	126,104	3,911	22.359
	13.1	204.1	3,007.39	260.00	129,827	4,027	22.345
	13.5	210.2	2,999.62	267.77	133,542	4,142	22.332
	14.3	222.4	2,984.11	283.31	140,942	4,371	22.304
	15.1	234.6	2,968.64	298.85	148,305	4,598	22.276
	15.9	246.7	2,953.21	314.27	155,571	4,824	22.249
	16.7	258.8	2,937.82	329.68	162,796	5,047	22.221
	17.5	270.8	2,922.46	344.97	169,925	5,269	22.194
	18.3	282.8	2,907.15	360.25	177,012	5,489	22.166
	19.1	294.8	2,891.88	375.54	184,069	5,708	22.139
	19.8	305.3	2,878.55	388.92	190,215	5,898	22.115
	20.6	317.2	2,863.36	404.08	197,140	6,113	22.087
	21.4	329.1	2,848.20	419.24	204,031	6,327	22.060
	22.2	341.0	2,833.09	434.39	210,882	6,539	22.033
	23.0	352.8	2,818.01	449.43	217,644	6,749	22.006
	23.8	364.6	2,802.98	464.46	224,367	6,957	21.978
	24.6	376.4	2,787.99	479.49	231,055	7,164	21.951
	25.4	388.1	2,773.03	494.39	237,647	7,369	21.924
	27.0	411.5	2,743.24	524.20	250,733	7,775	21.870
	28.6	434.8	2,713.62	553.89	263,629	8,174	21.816
	29.4	446.3	2,698.86	568.54	269,934	8,371	21.789
	30.2	457.9	2,684.15	583.31	276,264	8,566	21.762
	31.8	480.9	2,654.85	612.61	288,712	8,952	21.709
	33.3	502.4	2,627.52	640.00	300,229	9,308	21.658
	34.9	525.1	2,598.53	668.92	312,252	9,682	21.605
	36.5	547.7	2,569.69	697.71	324,090	10,050	21.552
	38.1	570.3	2,541.02	726.50	335,806	10,412	21.499
	40.0	596.8	2,507.19	760.25	349,359	10,833	21.436
	42.5	631.5	2,463.01	804.46	366,846	11,375	21.354
	45.0	665.9	2,419.22	848.28	383,873	11,902	21.272

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
645	47.0	693.2	2,384.47	883.06	397,171	12,314	21.207
	50.0	733.7	2,332.83	934.65	416,533	12,915	21.110
	52.5	767.1	2,290.22	977.20	432,182	13,401	21.030
	55.0	800.3	2,248.00	1,019.49	447,461	13,874	20.950
	57.5	833.1	2,206.18	1,061.27	462,266	14,334	20.870
	60.0	865.6	2,164.75	1,102.68	476,668	14,781	20.791
	62.5	897.9	2,123.71	1,143.82	490,717	15,215	20.712
650	4.0	63.7	3,237.13	81.15	42,333	1,303	22.839
	4.5	71.6	3,227.05	91.21	47,508	1,463	22.822
	5.1	81.1	3,214.98	103.31	53,711	1,653	22.801
	5.6	89.0	3,204.94	113.38	58,856	1,811	22.783
	5.9	93.7	3,198.92	119.36	61,903	1,905	22.773
	6.4	101.6	3,188.90	129.43	67,022	2,062	22.755
	6.7	106.3	3,182.90	135.41	70,054	2,155	22.745
	7.1	112.6	3,174.90	143.44	74,117	2,280	22.731
	7.5	118.8	3,166.92	151.34	78,103	2,404	22.717
	7.9	125.1	3,158.94	159.36	82,141	2,527	22.703
	8.3	131.4	3,150.98	167.39	86,174	2,650	22.689
	8.7	137.6	3,143.03	175.29	90,130	2,773	22.675
	9.1	143.8	3,135.08	183.18	94,071	2,895	22.661
	9.5	150.1	3,127.15	191.21	98,074	3,017	22.647
	9.9	156.3	3,119.22	199.11	102,001	3,138	22.633
	10.3	162.5	3,111.31	207.01	105,917	3,259	22.619
	10.7	168.7	3,103.40	214.90	109,819	3,379	22.605
	11.1	174.9	3,095.51	222.80	113,716	3,499	22.591
	11.5	181.1	3,087.63	230.70	117,604	3,618	22.578
	11.9	187.3	3,079.75	238.60	121,481	3,737	22.564
	12.3	193.4	3,071.89	246.37	125,283	3,856	22.550
	12.7	199.6	3,064.03	254.27	129,141	3,974	22.536
	13.1	205.8	3,056.19	262.17	132,990	4,091	22.522
	13.5	211.9	3,048.36	269.94	136,763	4,208	22.508
	14.3	224.2	3,032.72	285.61	144,347	4,441	22.481
	15.1	236.4	3,017.12	301.15	151,827	4,672	22.453
	15.9	248.6	3,001.56	316.69	159,270	4,901	22.425
	16.7	260.8	2,986.05	332.23	166,675	5,129	22.398
	17.5	273.0	2,970.57	347.77	174,043	5,355	22.370
	18.3	285.1	2,955.13	363.18	181,308	5,579	22.343
	19.1	297.2	2,939.74	378.60	188,543	5,801	22.315
	19.8	307.7	2,926.30	391.97	194,782	5,994	22.291
	20.6	319.8	2,910.98	407.39	201,948	6,213	22.264

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
650	21.4	331.8	2,895.70	422.68	209,013	6,430	22.237
	22.2	343.7	2,880.46	437.83	215,974	6,646	22.209
	23.0	355.7	2,865.26	453.12	222,968	6,859	22.182
	23.8	367.6	2,850.10	468.28	229,863	7,072	22.155
	24.6	379.4	2,834.98	483.31	236,659	7,282	22.128
	25.4	391.3	2,819.90	498.47	243,484	7,491	22.101
	27.0	414.8	2,789.86	528.41	256,846	7,904	22.047
	28.6	438.3	2,759.98	558.34	270,066	8,310	21.993
	29.4	450.0	2,745.10	573.25	276,599	8,510	21.966
	30.2	461.6	2,730.26	588.03	283,037	8,709	21.939
	31.8	484.8	2,700.71	617.58	295,807	9,102	21.885
	33.3	506.5	2,673.14	645.22	307,631	9,465	21.835
	34.9	529.4	2,643.90	674.39	319,969	9,845	21.782
	36.5	552.3	2,614.82	703.57	332,186	10,220	21.728
	38.1	575.0	2,585.89	732.48	344,150	10,588	21.675
	40.0	601.8	2,551.76	766.62	358,107	11,018	21.613
	42.5	636.7	2,507.19	811.08	375,999	11,570	21.530
	45.0	671.4	2,463.01	855.29	393,487	12,107	21.449
	47.5	705.8	2,419.22	899.11	410,514	12,631	21.367
	50.0	739.9	2,375.83	942.55	427,093	13,140	21.286
655	27.0	418.2	2,836.86	532.74	263,116	8,033	22.223
660	4.0	64.7	3,338.76	82.42	44,337	1,344	23.193
	4.5	72.7	3,328.52	92.61	49,743	1,508	23.175
	5.0	80.8	3,318.30	102.93	55,203	1,672	23.158
	5.1	82.4	3,316.26	104.97	56,280	1,705	23.154
	5.6	90.4	3,306.06	115.16	61,650	1,868	23.137
	5.9	95.2	3,299.95	121.27	64,862	1,965	23.126
	6.3	101.6	3,291.81	129.43	69,142	2,094	23.112
	6.4	103.2	3,289.78	131.46	70,205	2,127	23.109
	6.7	107.9	3,283.68	137.45	73,337	2,223	23.098
	7.1	114.3	3,275.56	145.61	77,597	2,352	23.084
	7.5	120.7	3,267.45	153.76	81,841	2,480	23.070
	7.9	127.0	3,259.35	161.78	86,006	2,607	23.056
	8.0	128.6	3,257.33	163.82	87,064	2,639	23.053
	8.3	133.4	3,251.26	169.94	90,234	2,734	23.042
	8.7	139.7	3,243.18	177.96	94,378	2,861	23.028
	8.8	141.3	3,241.16	180.00	95,431	2,892	23.025
	9.1	146.1	3,235.11	186.11	98,581	2,987	23.015
	9.5	152.4	3,227.05	194.14	102,710	3,112	23.001

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660	9.9	158.7	3,219.00	202.17	106,829	3,238	22.987
	10.0	160.3	3,216.99	204.20	107,869	3,269	22.983
	10.3	165.0	3,210.96	210.19	110,932	3,362	22.973
	10.7	171.3	3,202.93	218.22	115,031	3,486	22.959
	11.0	176.1	3,196.91	224.33	118,144	3,579	22.948
	11.1	177.6	3,194.91	226.24	119,114	3,610	22.945
	11.5	183.9	3,186.90	234.27	123,192	3,733	22.931
	11.7	187.1	3,182.90	238.34	125,257	3,795	22.924
	11.9	190.2	3,178.90	242.29	127,255	3,856	22.917
	12.0	191.8	3,176.90	244.33	128,288	3,887	22.914
	12.3	196.5	3,170.91	250.32	131,314	3,979	22.903
	12.5	199.6	3,166.92	254.27	133,305	4,040	22.896
	12.7	202.7	3,162.93	258.22	135,294	4,100	22.889
	13.1	209.0	3,154.96	266.24	139,327	4,222	22.876
	13.5	215.2	3,147.00	274.14	143,288	4,343	22.862
	13.9	221.5	3,139.05	282.17	147,306	4,463	22.848
	14.3	227.7	3,131.11	290.06	151,242	4,583	22.834
	14.7	233.9	3,123.18	297.96	155,173	4,703	22.820
	15.1	240.2	3,115.26	305.99	159,162	4,822	22.806
	15.5	246.4	3,107.35	313.89	163,074	4,941	22.793
	15.9	252.6	3,099.46	321.78	166,971	5,059	22.779
	16.0	254.1	3,097.48	323.69	167,911	5,089	22.775
	16.3	258.8	3,091.57	329.68	170,863	5,177	22.765
	16.7	264.9	3,083.69	337.45	174,678	5,294	22.751
	17.5	277.3	3,067.96	353.25	182,415	5,527	22.724
	17.6	278.8	3,066.00	355.16	183,346	5,557	22.720
	18.3	289.6	3,052.27	368.92	190,046	5,759	22.696
	18.7	295.8	3,044.44	376.82	193,881	5,874	22.683
	19.1	301.9	3,036.62	384.59	197,640	5,989	22.669
	19.4	306.5	3,030.77	390.45	200,469	6,074	22.659
	19.8	312.6	3,022.96	398.22	204,211	6,188	22.645
	20.0	315.7	3,019.07	402.17	206,112	6,245	22.638
	20.6	324.8	3,007.39	413.76	211,668	6,415	22.617
	21.0	330.9	2,999.62	421.53	215,382	6,527	22.604
	21.4	337.0	2,991.86	429.30	219,087	6,639	22.590
	21.8	343.1	2,984.11	437.07	222,783	6,751	22.576
	22.2	349.2	2,976.37	444.84	226,469	6,862	22.563
	23.0	361.3	2,960.92	460.25	233,748	7,084	22.536
	23.8	373.4	2,945.51	475.67	240,996	7,303	22.508
	24.6	385.5	2,930.13	491.08	248,203	7,521	22.481
	25.0	391.5	2,922.46	498.73	251,765	7,629	22.468

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
660	25.4	397.5	2,914.80	506.37	255,313	7,737	22.454
	27.0	421.5	2,884.26	536.94	269,422	8,164	22.400
	28.6	445.3	2,853.88	567.26	283,264	8,585	22.346
	29.4	457.2	2,838.75	582.42	290,133	8,792	22.319
	30.2	469.1	2,823.66	597.58	296,967	8,998	22.292
	31.8	492.7	2,793.60	627.64	310,404	9,405	22.238
	33.3	514.7	2,765.57	655.67	322,804	9,781	22.188
	34.9	538.0	2,735.82	685.35	335,794	10,176	22.135
	36.5	561.3	2,706.24	715.03	348,653	10,564	22.081
	38.1	584.4	2,676.81	744.46	361,260	10,946	22.028
	40.0	611.6	2,642.08	779.11	375,921	11,392	21.965
	42.5	647.2	2,596.72	824.46	394,826	11,965	21.883
	45.0	682.5	2,551.76	869.43	413,251	12,523	21.801
	47.5	717.5	2,507.19	914.01	431,199	13,067	21.720
	50.0	752.2	2,463.01	958.22	448,687	13,596	21.639
	52.5	786.6	2,419.22	1,002.04	465,714	14,112	21.558
	55.0	820.6	2,375.83	1,045.35	482,233	14,613	21.478
	57.5	854.4	2,332.83	1,088.41	498,373	15,102	21.398
	60.0	887.8	2,290.22	1,130.96	514,021	15,577	21.319
666	22.2	352.5	3,034.67	449.04	232,923	6,994	22.775
670	5.6	91.8	3,408.76	116.94	64,530	1,925	23.490
	5.9	96.6	3,402.56	123.06	67,847	2,026	23.480
	6.4	104.7	3,392.22	133.38	73,427	2,193	23.462
	6.7	109.6	3,386.03	139.62	76,793	2,292	23.452
	7.1	116.1	3,377.79	147.90	81,250	2,425	23.438
	7.5	122.5	3,369.55	156.05	85,625	2,557	23.424
	7.9	129.0	3,361.33	164.33	90,061	2,688	23.410
	8.3	135.4	3,353.11	172.48	94,415	2,819	23.396
	8.7	141.9	3,344.90	180.76	98,829	2,950	23.382
	9.1	148.3	3,336.71	188.92	103,167	3,080	23.368
	9.5	154.7	3,328.52	197.07	107,490	3,210	23.354
	9.9	161.2	3,320.35	205.35	111,872	3,339	23.340
	10.3	167.6	3,312.18	213.50	116,173	3,467	23.326
	10.7	174.0	3,304.03	221.66	120,470	3,596	23.312
	11.1	180.4	3,295.88	229.81	124,750	3,723	23.298
	11.5	186.8	3,287.74	237.96	129,020	3,850	23.285
	11.9	193.1	3,279.62	245.99	133,215	3,977	23.271
	12.3	199.5	3,271.50	254.14	137,465	4,104	23.257
	12.7	205.9	3,263.40	262.29	141,704	4,229	23.243

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm2	S cm2	I cm4	I/V cm3	ρ cm
670	13.1	212.2	3,255.30	270.32	145,868	4,355	23.229
	13.5	218.6	3,247.22	278.47	150,086	4,480	23.215
	14.3	231.2	3,231.08	294.52	158,359	4,728	23.188
	15.1	243.9	3,214.98	310.70	166,660	4,974	23.160
	15.9	256.5	3,198.92	326.75	174,852	5,219	23.132
	16.7	269.1	3,182.90	342.80	183,004	5,462	23.105
	17.5	281.6	3,166.92	358.73	191,052	5,703	23.077
	18.3	294.1	3,150.98	374.65	199,055	5,942	23.050
	19.8	317.5	3,121.20	404.46	213,935	6,386	22.998
	20.6	329.9	3,105.38	420.25	221,758	6,620	22.971
	21.4	342.3	3,089.60	436.05	229,548	6,852	22.943
	22.2	354.7	3,073.85	451.85	237,299	7,083	22.916
	23.0	367.0	3,058.15	467.52	244,944	7,311	22.889
	23.8	379.3	3,042.49	483.18	252,547	7,538	22.862
	24.6	391.6	3,026.86	498.85	260,117	7,764	22.834
	25.4	403.8	3,011.28	514.39	267,582	7,987	22.807
	27.0	428.2	2,980.24	545.48	282,407	8,429	22.753
	28.6	452.4	2,949.35	576.31	296,952	8,864	22.699
	30.2	476.5	2,918.63	607.01	311,287	9,292	22.645
	31.8	500.5	2,888.07	637.58	325,413	9,714	22.591
	33.3	522.9	2,859.57	666.11	338,464	10,103	22.541
	34.9	546.6	2,829.32	696.31	352,133	10,512	22.488
	36.5	570.3	2,799.23	726.50	365,661	10,914	22.434
	38.1	593.7	2,769.30	756.31	378,863	11,310	22.381
	39.1	608.4	2,750.68	775.03	387,092	11,554	22.348
	40.0	621.5	2,733.97	791.72	394,376	11,772	22.318
673	42.5	657.7	2,687.83	837.83	414,268	12,366	22.236
	45.0	693.6	2,642.08	883.57	433,667	12,945	22.154
	47.5	729.2	2,596.72	928.92	452,573	13,510	22.072
	50.0	764.5	2,551.76	973.89	470,998	14,060	21.991
	5.1	84.0	3,450.28	107.01	59,674	1,773	23.614
	5.6	92.2	3,439.88	117.45	65,398	1,943	23.596
	5.9	97.1	3,433.64	123.69	68,811	2,044	23.586
	6.4	105.2	3,423.27	134.01	74,442	2,213	23.568
	6.7	110.1	3,417.05	140.25	77,839	2,313	23.558
	7.1	116.6	3,408.76	148.54	82,342	2,447	23.544
673	7.5	123.1	3,400.49	156.82	86,829	2,580	23.530
	7.9	129.6	3,392.22	165.10	91,305	2,713	23.516
	8.3	136.1	3,383.97	173.38	95,770	2,845	23.502
	8.7	142.5	3,375.73	181.53	100,152	2,977	23.488

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
673	9.1	149.0	3,367.49	189.81	104,596	3,108	23.474
	9.5	155.5	3,359.27	198.09	109,029	3,239	23.460
	9.9	161.9	3,351.06	206.24	113,380	3,369	23.446
	10.3	168.3	3,342.85	214.39	117,721	3,499	23.432
	10.7	174.8	3,334.66	222.68	122,128	3,629	23.418
	11.1	181.2	3,326.48	230.83	126,447	3,757	23.404
	11.5	187.6	3,318.30	238.98	130,756	3,886	23.391
	11.9	194.0	3,310.14	247.13	135,055	4,014	23.377
	12.3	200.4	3,301.99	255.29	139,349	4,141	23.363
	12.7	206.8	3,293.85	263.44	143,627	4,268	23.349
	13.1	213.2	3,285.71	271.59	147,894	4,395	23.335
	13.5	219.6	3,277.59	279.75	152,157	4,521	23.321
	14.3	232.3	3,261.37	295.92	160,570	4,772	23.294
	15.1	245.0	3,245.20	312.10	168,948	5,021	23.266
	15.9	257.7	3,229.06	328.28	177,285	5,268	23.238
	16.7	270.3	3,212.97	344.33	185,512	5,513	23.211
	17.5	282.9	3,196.91	360.38	193,698	5,756	23.183
	18.3	295.5	3,180.90	376.43	201,845	5,998	23.156
	19.1	308.0	3,164.92	392.36	209,888	6,238	23.128
	19.8	319.0	3,150.98	406.37	216,932	6,446	23.104
	20.6	331.4	3,135.08	422.17	224,832	6,682	23.077
	21.4	343.9	3,119.22	438.09	232,758	6,917	23.049
	21.8	350.1	3,111.31	445.99	236,674	7,033	23.036
	22.2	356.3	3,103.40	453.89	240,581	7,150	23.022
	22.6	362.5	3,095.51	461.78	244,473	7,265	23.008
	23.0	368.7	3,087.63	469.68	248,360	7,381	22.995
	23.4	374.9	3,079.75	477.58	252,238	7,495	22.981
	23.8	381.1	3,071.89	485.48	256,107	7,610	22.968
	24.2	387.2	3,064.03	493.25	259,898	7,724	22.954
	24.6	393.4	3,056.19	501.15	263,748	7,837	22.940
	25.0	399.5	3,048.36	508.92	267,520	7,950	22.927
	25.4	405.7	3,040.53	516.82	271,350	8,063	22.913
	25.8	411.8	3,032.72	524.59	275,104	8,175	22.900
	26.2	417.9	3,024.91	532.36	278,848	8,287	22.886
	26.6	424.0	3,017.12	540.13	282,583	8,398	22.873
	27.0	430.2	3,009.34	548.03	286,377	8,509	22.859
	28.6	454.5	2,978.30	578.98	301,120	8,949	22.805
	30.2	478.8	2,947.43	609.94	315,723	9,381	22.751
	31.8	502.9	2,916.72	640.64	330,049	9,807	22.697
	33.3	525.4	2,888.07	669.30	343,288	10,201	22.647
	34.9	549.2	2,857.67	699.62	357,147	10,614	22.593

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
673	36.5	573.0	2,827.43	729.94	370,868	11,020	22.540
	38.1	596.6	2,797.35	760.00	384,322	11,420	22.487
	40.0	624.4	2,761.84	795.41	399,981	11,887	22.424
	42.5	660.8	2,715.46	841.78	420,192	12,488	22.342
	45.0	696.9	2,669.48	887.77	439,900	13,073	22.260
	47.5	732.7	2,623.89	933.38	459,114	13,644	22.178
	50.0	768.2	2,578.69	978.60	477,837	14,200	22.097
	52.5	803.4	2,533.88	1,023.44	496,082	14,742	22.016
	55.0	838.3	2,489.47	1,067.90	513,859	15,270	21.935
	57.5	872.8	2,445.45	1,111.85	531,112	15,783	21.855
	60.0	907.1	2,401.82	1,155.54	547,970	16,284	21.776
	62.5	941.0	2,358.58	1,198.73	564,327	16,770	21.697
680	5.6	93.1	3,513.03	118.60	67,431	1,984	23.844
	5.9	98.1	3,506.73	124.97	70,990	2,088	23.833
	6.4	106.3	3,496.24	135.41	76,808	2,259	23.816
	6.7	111.3	3,489.96	141.78	80,350	2,362	23.805
	7.1	117.8	3,481.59	150.06	84,942	2,499	23.791
	7.5	124.4	3,473.22	158.47	89,597	2,635	23.777
	7.9	130.9	3,464.87	166.75	94,168	2,771	23.763
	8.3	137.5	3,456.53	175.16	98,801	2,906	23.749
	8.7	144.0	3,448.20	183.44	103,350	3,040	23.736
	9.1	150.6	3,439.88	191.85	107,961	3,175	23.722
	9.5	157.1	3,431.57	200.13	112,488	3,308	23.708
	9.9	163.6	3,423.27	208.41	117,005	3,441	23.694
	10.3	170.1	3,414.97	216.69	121,510	3,574	23.680
	10.7	176.6	3,406.69	224.97	126,005	3,706	23.666
	11.1	183.1	3,398.42	233.25	130,489	3,838	23.652
	11.5	189.6	3,390.16	241.53	134,962	3,969	23.638
	11.9	196.1	3,381.91	249.81	139,425	4,100	23.624
	12.3	202.5	3,373.67	257.96	143,805	4,230	23.610
	12.7	209.0	3,365.44	266.24	148,246	4,360	23.596
	13.1	215.5	3,357.22	274.52	152,677	4,490	23.583
	13.5	221.9	3,349.01	282.68	157,030	4,618	23.569
	14.3	234.8	3,332.61	299.11	165,767	4,875	23.541
	15.1	247.6	3,316.26	315.41	174,390	5,129	23.513
	15.9	260.4	3,299.95	331.72	182,977	5,382	23.486
	16.7	273.2	3,283.68	348.03	191,523	5,633	23.458
	17.5	285.9	3,267.45	364.20	199,951	5,881	23.431
	18.3	298.6	3,251.26	380.38	208,344	6,128	23.403
	19.1	311.3	3,235.11	396.56	216,697	6,374	23.376

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
680	19.8	322.4	3,221.01	410.70	223,963	6,587	23.352
	20.6	335.0	3,204.94	426.75	232,169	6,828	23.324
	21.4	347.6	3,188.90	442.80	240,336	7,068	23.297
	21.8	353.9	3,180.90	450.83	244,408	7,188	23.283
	22.2	360.1	3,172.91	458.73	248,399	7,307	23.270
	22.6	366.4	3,164.92	466.75	252,445	7,425	23.256
	23.0	372.7	3,156.95	474.78	256,487	7,543	23.242
	23.4	378.9	3,148.99	482.68	260,449	7,660	23.229
	23.8	385.2	3,141.04	490.70	264,466	7,777	23.215
	24.2	391.4	3,133.10	498.60	268,408	7,894	23.201
	24.6	397.6	3,125.16	506.50	272,341	8,010	23.188
	25.0	403.8	3,117.24	514.39	276,260	8,126	23.174
	25.4	410.1	3,109.33	522.42	280,243	8,241	23.161
	25.8	416.3	3,101.43	530.32	284,148	8,356	23.147
	26.2	422.4	3,093.54	538.09	287,973	8,471	23.133
	26.6	428.6	3,085.66	545.99	291,858	8,585	23.120
	27.0	434.8	3,077.78	553.89	295,734	8,698	23.106
	28.6	459.5	3,046.40	585.35	311,070	9,148	23.052
	29.4	471.7	3,030.77	600.89	318,580	9,370	23.025
	30.2	484.0	3,015.17	616.56	326,123	9,591	22.998
	31.8	508.4	2,984.11	647.64	340,962	10,027	22.944
	33.3	531.1	2,955.13	676.56	354,627	10,430	22.894
	34.9	555.2	2,924.38	707.26	368,988	10,853	22.841
	36.5	579.3	2,893.79	737.96	383,208	11,270	22.787
	38.1	603.1	2,863.36	768.28	397,092	11,680	22.734
	40.0	631.3	2,827.43	804.20	413,359	12,158	22.671
	42.5	668.2	2,780.50	851.21	434,343	12,774	22.589
	45.0	704.7	2,733.97	897.71	454,746	13,375	22.506
	47.5	740.9	2,687.83	943.82	474,638	13,960	22.425
	50.0	776.9	2,642.08	989.68	494,098	14,531	22.343
	52.5	812.5	2,596.72	1,035.03	513,003	15,087	22.262
	55.0	847.8	2,551.76	1,080.00	531,428	15,629	22.182
	57.5	882.7	2,507.19	1,124.46	549,316	16,157	22.102
	60.0	917.4	2,463.01	1,168.66	566,800	16,671	22.022
	62.5	951.8	2,419.22	1,212.48	583,828	17,171	21.943
685	9.9	164.8	3,475.31	209.94	119,629	3,493	23.871
	13.0	215.4	3,410.83	274.39	154,946	4,525	23.763
686	8.7	145.3	3,510.93	185.10	106,157	3,095	23.948
	13.0	215.8	3,421.19	274.90	155,696	4,539	23.798



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
700	4.5	77.2	3,750.12	98.34	59,464	1,699	24.590
	5.1	87.4	3,737.11	111.34	67,209	1,920	24.569
	5.6	95.9	3,726.28	122.17	73,641	2,104	24.551
	6.4	109.5	3,708.99	139.49	83,890	2,396	24.523
	6.7	114.6	3,702.52	145.99	87,724	2,505	24.513
	7.1	121.3	3,693.89	154.52	92,743	2,650	24.498
	7.5	128.1	3,685.28	163.18	97,829	2,795	24.485
	7.9	134.8	3,676.68	171.72	102,831	2,939	24.470
	8.3	141.6	3,668.09	180.38	107,894	3,082	24.457
	8.7	148.3	3,659.50	188.92	112,873	3,225	24.443
	9.1	155.1	3,650.93	197.58	117,912	3,368	24.429
	9.5	161.8	3,642.37	206.11	122,862	3,510	24.415
	9.9	168.5	3,633.81	214.65	127,807	3,651	24.401
	10.3	175.2	3,625.27	223.18	132,734	3,792	24.387
	10.7	181.9	3,616.74	231.72	137,656	3,933	24.373
	11.1	188.6	3,608.22	240.25	142,560	4,073	24.359
	11.5	195.3	3,599.70	248.79	147,459	4,212	24.345
	11.9	201.9	3,591.20	257.20	152,270	4,351	24.331
	12.3	208.6	3,582.71	265.73	157,140	4,490	24.317
	12.7	215.3	3,574.23	274.27	162,005	4,628	24.303
	13.1	221.9	3,565.76	282.68	166,782	4,765	24.289
	13.5	228.6	3,557.29	291.21	171,619	4,902	24.276
	14.3	241.8	3,540.40	308.03	181,117	5,175	24.248
	15.1	255.1	3,523.54	324.97	190,642	5,446	24.220
	15.9	268.3	3,506.73	341.78	200,046	5,715	24.193
	16.7	281.4	3,489.96	358.47	209,337	5,981	24.165
	17.5	294.6	3,473.22	375.29	218,659	6,246	24.137
	18.3	307.7	3,456.53	391.97	227,857	6,509	24.110
	19.1	320.7	3,439.88	408.54	236,948	6,770	24.082
	19.5	327.3	3,431.57	416.94	241,544	6,900	24.069
	19.8	332.1	3,425.34	423.06	244,880	6,997	24.058
	20.6	345.2	3,408.76	439.75	253,960	7,255	24.031
	21.4	358.1	3,392.22	456.18	262,849	7,511	24.004
	22.2	371.1	3,375.73	472.74	271,770	7,765	23.976
	23.0	384.0	3,359.27	489.17	280,575	8,017	23.949
	23.8	396.9	3,342.85	505.61	289,344	8,267	23.922
	24.6	409.8	3,326.48	522.04	298,065	8,515	23.894
	25.4	422.6	3,310.14	538.34	306,672	8,762	23.867
	27.0	448.1	3,277.59	570.83	323,702	9,249	23.813
	28.6	473.6	3,245.20	603.31	340,565	9,729	23.759

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Technical data of tubes

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700	30.2	498.9	3,212.97	635.54	357,129	10,203	23.705
	31.8	524.0	3,180.90	667.52	373,396	10,669	23.651
	33.3	547.5	3,150.98	697.45	388,478	11,100	23.600
	34.9	572.5	3,119.22	729.30	404,375	11,552	23.547
	38.1	621.9	3,056.19	792.23	435,294	12,437	23.440
	40.0	651.1	3,019.07	829.43	453,284	12,950	23.377
	42.5	689.1	2,970.57	877.83	476,346	13,611	23.294
	45.0	726.9	2,922.46	925.99	498,935	14,255	23.212
	47.5	764.4	2,874.75	973.76	520,977	14,884	23.130
	50.0	801.5	2,827.43	1,021.02	542,417	15,498	23.048
	52.5	838.4	2,780.50	1,068.03	563,403	16,096	22.967
	55.0	874.9	2,733.97	1,114.52	583,800	16,679	22.886
	57.5	911.1	2,687.83	1,160.64	603,696	17,248	22.806
	60.0	947.0	2,642.08	1,206.37	623,090	17,803	22.726
	62.5	982.6	2,596.72	1,251.72	641,995	18,343	22.647
711	4.6	80.1	3,868.27	102.04	63,650	1,791	24.975
	5.0	87.1	3,859.45	110.96	69,137	1,944	24.961
	5.1	88.8	3,857.25	113.12	70,463	1,982	24.958
	5.6	97.4	3,846.25	124.08	77,181	2,171	24.940
	5.9	102.6	3,839.66	130.70	81,230	2,285	24.929
	6.0	104.3	3,837.46	132.87	82,556	2,323	24.926
	6.3	109.5	3,830.87	139.49	86,596	2,436	24.915
	6.4	111.2	3,828.68	141.66	87,918	2,473	24.912
	6.5	112.9	3,826.49	143.82	89,234	2,511	24.908
	6.7	116.4	3,822.10	148.28	91,949	2,586	24.901
	6.8	118.1	3,819.91	150.45	93,268	2,623	24.898
	7.1	123.3	3,813.34	157.07	97,290	2,736	24.887
	7.5	130.1	3,804.59	165.73	102,539	2,885	24.873
	7.6	131.8	3,802.40	167.90	103,852	2,922	24.870
	7.9	137.0	3,795.85	174.52	107,856	3,034	24.859
	8.0	138.7	3,793.67	176.69	109,166	3,071	24.856
	8.3	143.8	3,787.12	183.18	113,081	3,182	24.845
	8.7	150.7	3,778.40	191.97	118,374	3,329	24.831
	8.8	152.4	3,776.22	194.14	119,678	3,366	24.828
	9.0	155.8	3,771.86	198.47	122,279	3,440	24.821
	9.1	157.5	3,769.69	200.64	123,581	3,477	24.818
	9.5	164.4	3,760.99	209.43	128,850	3,623	24.804
	9.9	171.2	3,752.29	218.09	134,027	3,769	24.790
	10.0	172.9	3,750.12	220.25	135,316	3,806	24.786
	10.3	178.0	3,743.61	226.75	139,192	3,915	24.776

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
711	10.7	184.8	3,734.94	235.41	144,346	4,060	24.762
	11.0	189.9	3,728.45	241.91	148,207	4,169	24.751
	11.1	191.6	3,726.28	244.08	149,494	4,205	24.748
	11.5	198.4	3,717.63	252.74	154,624	4,349	24.734
	11.9	205.2	3,708.99	261.40	159,742	4,493	24.720
	12.0	206.9	3,706.83	263.57	161,023	4,529	24.717
	12.3	211.9	3,700.36	269.94	164,776	4,636	24.706
	12.5	215.3	3,696.05	274.27	167,325	4,707	24.699
	12.7	218.7	3,691.74	278.60	169,871	4,779	24.692
	13.1	225.5	3,683.13	287.26	174,954	4,921	24.678
	13.5	232.2	3,674.53	295.80	179,953	5,062	24.664
	13.9	239.0	3,665.94	304.46	185,013	5,203	24.651
	14.0	240.7	3,663.79	306.62	186,274	5,239	24.647
	14.2	244.0	3,659.50	310.83	188,725	5,309	24.640
	14.3	245.7	3,657.36	312.99	189,983	5,344	24.637
	14.7	252.4	3,648.79	321.53	194,948	5,484	24.623
	15.0	257.5	3,642.37	328.03	198,721	5,589	24.613
	15.1	259.2	3,640.23	330.19	199,973	5,624	24.609
	15.5	265.9	3,631.68	338.73	204,915	5,763	24.595
	15.9	272.6	3,623.14	347.26	209,839	5,902	24.581
	16.0	274.2	3,621.00	349.30	211,013	5,936	24.578
	16.3	279.3	3,614.61	355.80	214,758	6,040	24.568
	16.7	286.0	3,606.09	364.33	219,660	6,178	24.554
	17.0	291.0	3,599.70	370.70	223,312	6,281	24.543
	17.5	299.3	3,589.08	381.27	229,357	6,452	24.526
	17.9	306.0	3,580.59	389.81	234,231	6,588	24.512
	18.0	307.6	3,578.47	391.85	235,391	6,622	24.509
	18.3	312.6	3,572.11	398.22	239,016	6,724	24.499
	18.7	319.3	3,563.64	406.75	243,861	6,859	24.485
	19.0	324.3	3,557.29	413.12	247,472	6,960	24.475
	19.1	325.9	3,555.18	415.16	248,624	6,994	24.471
	19.5	332.5	3,546.73	423.57	253,376	7,128	24.457
	19.8	337.5	3,540.40	429.94	256,969	7,229	24.447
	20.0	340.8	3,536.18	434.14	259,334	7,295	24.440
	20.6	350.7	3,523.54	446.75	266,417	7,495	24.420
	21.4	363.9	3,506.73	463.57	275,828	7,760	24.392
	22.0	373.8	3,494.15	476.18	282,854	7,957	24.372
	22.2	377.1	3,489.96	480.38	285,189	8,022	24.365
	23.0	390.3	3,473.22	497.20	294,512	8,283	24.338
	23.1	391.9	3,471.14	499.24	295,637	8,316	24.334
	23.8	403.4	3,456.53	513.89	303,716	8,542	24.310

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
711	24.6	416.4	3,439.88	530.45	312,800	8,799	24.283
	25.0	423.0	3,431.57	538.85	317,397	8,927	24.269
	25.4	429.5	3,423.27	547.13	321,913	9,054	24.256
	25.8	436.0	3,414.97	555.41	326,418	9,181	24.242
	27.0	455.5	3,390.16	580.25	339,871	9,559	24.201
	28.6	481.3	3,357.22	613.12	357,516	10,057	24.147
	29.0	487.8	3,349.01	621.40	361,938	10,180	24.134
	29.4	494.2	3,340.80	629.55	366,275	10,303	24.120
	30.0	503.8	3,328.52	641.78	372,763	10,486	24.100
	30.2	507.1	3,324.43	645.99	374,998	10,547	24.093
	31.8	532.7	3,291.81	678.60	392,166	11,030	24.039
	33.3	556.6	3,261.37	709.04	408,040	11,477	23.989
	34.9	581.9	3,229.06	741.27	424,682	11,946	23.935
	37.0	615.0	3,186.90	783.44	446,213	12,552	23.865
	37.2	618.2	3,182.90	787.52	448,286	12,609	23.858
	38.1	632.3	3,164.92	805.48	457,358	12,864	23.828
	40.0	661.9	3,127.15	843.18	476,229	13,396	23.765
	45.5	746.8	3,019.07	951.34	529,136	14,883	23.583
720	6.4	112.6	3,928.02	143.44	91,311	2,537	25.230
	6.7	117.9	3,921.36	150.19	95,529	2,653	25.220
	7.1	124.8	3,912.49	158.98	101,007	2,806	25.206
	7.5	131.8	3,903.62	167.90	106,556	2,960	25.192
	7.9	138.7	3,894.77	176.69	112,010	3,112	25.178
	8.0	140.5	3,892.56	178.98	113,430	3,150	25.174
	8.3	145.7	3,885.92	185.61	117,534	3,264	25.164
	8.7	152.6	3,877.09	194.39	122,957	3,416	25.150
	9.0	157.8	3,870.47	201.02	127,045	3,529	25.139
	9.1	159.5	3,868.27	203.18	128,375	3,567	25.136
	9.5	166.5	3,859.45	212.10	133,862	3,718	25.122
	9.9	173.4	3,850.65	220.89	139,255	3,868	25.108
	10.3	180.3	3,841.85	229.68	144,635	4,017	25.094
	10.7	187.2	3,833.07	238.47	150,004	4,166	25.080
	11.0	192.3	3,826.49	244.97	153,964	4,278	25.069
	11.1	194.1	3,824.30	247.26	155,360	4,315	25.066
	11.5	200.9	3,815.53	255.92	160,623	4,463	25.052
	11.9	207.8	3,806.78	264.71	165,956	4,610	25.038
	12.3	214.7	3,798.03	273.50	171,276	4,757	25.024
	12.7	221.5	3,789.30	282.17	176,510	4,904	25.010
	13.0	226.7	3,782.76	288.79	180,500	5,013	25.000
	13.1	228.4	3,780.58	290.96	181,806	5,050	24.996

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Technical data of tubes

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720	13.5	235.2	3,771.86	299.62	187,010	5,195	24.983
	13.9	242.1	3,763.16	308.41	192,282	5,340	24.969
	14.0	243.8	3,760.99	310.57	193,575	5,376	24.965
	14.3	248.9	3,754.47	317.07	197,462	5,484	24.955
	14.5	252.3	3,750.12	321.40	200,048	5,556	24.948
	14.7	255.7	3,745.78	325.73	202,630	5,628	24.941
	15.1	262.5	3,737.11	334.39	207,787	5,772	24.927
	15.5	269.3	3,728.45	343.06	212,938	5,915	24.913
	15.9	276.1	3,719.79	351.72	218,071	6,057	24.900
	16.0	277.8	3,717.63	353.89	219,355	6,093	24.896
	16.3	282.9	3,711.15	360.38	223,192	6,199	24.886
	16.7	289.7	3,702.52	369.04	228,302	6,341	24.872
	17.5	303.2	3,685.28	386.24	238,413	6,622	24.844
	17.9	309.9	3,676.68	394.78	243,414	6,762	24.831
	18.0	311.6	3,674.53	396.94	244,678	6,797	24.827
	18.3	316.7	3,668.09	403.44	248,478	6,902	24.817
	19.0	328.5	3,653.07	418.47	257,235	7,145	24.793
	19.1	330.2	3,650.93	420.64	258,497	7,179	24.789
	19.8	341.9	3,635.95	435.54	267,134	7,421	24.765
	20.0	345.3	3,631.68	439.87	269,640	7,489	24.758
	20.6	355.3	3,618.87	452.61	276,989	7,694	24.738
	21.0	362.0	3,610.35	461.15	281,902	7,831	24.724
	21.4	368.7	3,601.83	469.68	286,798	7,966	24.710
	22.2	382.0	3,584.83	486.62	296,484	8,237	24.683
	23.0	395.4	3,567.87	503.69	306,205	8,505	24.656
	23.8	408.6	3,550.95	520.51	315,729	8,771	24.628
	24.6	421.9	3,534.07	537.45	325,282	9,035	24.601
	25.4	435.1	3,517.23	554.27	334,720	9,298	24.574
	26.0	445.0	3,504.63	566.88	341,766	9,493	24.553
	27.0	461.5	3,483.68	587.90	353,459	9,817	24.519
	28.0	477.9	3,462.79	608.79	365,006	10,138	24.485
	28.6	487.7	3,450.28	621.27	371,870	10,329	24.465
	29.0	494.2	3,441.96	629.55	376,410	10,456	24.452
	29.4	500.7	3,433.64	637.83	380,938	10,582	24.438
	30.3	515.4	3,414.97	656.56	391,149	10,865	24.408
	31.8	539.7	3,383.97	687.52	407,897	11,331	24.357
	33.3	563.9	3,353.11	718.34	424,418	11,790	24.307
	34.9	589.7	3,320.35	751.21	441,881	12,274	24.253
	36.5	615.3	3,287.74	783.82	459,029	12,750	24.199
	38.1	640.7	3,255.30	816.18	475,873	13,219	24.146
	40.0	670.8	3,216.99	854.52	495,622	13,767	24.083



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
728	6.4	113.9	4,017.39	145.10	94,451	2,595	25.513
	6.7	119.2	4,010.66	151.85	98,763	2,713	25.502
	7.1	126.2	4,001.68	160.76	104,443	2,870	25.488
	7.5	133.3	3,992.72	169.81	110,202	3,027	25.474
	7.9	140.3	3,983.76	178.73	115,863	3,183	25.460
	8.3	147.3	3,974.82	187.64	121,506	3,338	25.446
	8.7	154.3	3,965.88	196.56	127,142	3,494	25.432
	9.1	161.3	3,956.96	205.48	132,766	3,648	25.419
	9.5	168.3	3,948.04	214.39	138,371	3,802	25.405
	9.9	175.3	3,939.14	223.31	143,970	3,956	25.391
	10.3	182.3	3,930.25	232.23	149,556	4,109	25.377
	10.7	189.3	3,921.36	241.15	155,130	4,261	25.363
	11.1	196.3	3,912.49	250.06	160,685	4,413	25.349
	11.5	203.2	3,903.62	258.85	166,151	4,565	25.335
	11.9	210.2	3,894.77	267.77	171,688	4,716	25.321
	12.3	217.1	3,885.92	276.56	177,129	4,866	25.307
	12.7	224.0	3,877.09	285.35	182,558	5,016	25.293
	13.1	231.0	3,868.27	294.27	188,058	5,166	25.279
	13.5	237.9	3,859.45	303.06	193,463	5,314	25.265
	14.3	251.7	3,841.85	320.64	204,237	5,611	25.238
	15.1	265.5	3,824.30	338.22	214,962	5,905	25.210
	15.9	279.2	3,806.78	355.67	225,557	6,197	25.182
	16.7	293.0	3,789.30	373.25	236,186	6,487	25.155
	17.5	306.6	3,771.86	390.57	246,604	6,776	25.127
	18.3	320.3	3,754.47	408.03	257,064	7,062	25.100
	19.1	333.9	3,737.11	425.35	267,388	7,346	25.072
	19.8	345.8	3,721.96	440.51	276,387	7,593	25.048
	20.6	359.4	3,704.67	457.83	286,624	7,874	25.020
	21.4	372.9	3,687.43	475.03	296,740	8,153	24.993
	22.2	386.4	3,670.23	492.23	306,811	8,429	24.966
	23.0	399.9	3,653.07	509.43	316,836	8,704	24.938
	23.8	413.3	3,635.95	526.50	326,735	8,977	24.911
	24.6	426.7	3,618.87	543.57	336,590	9,248	24.884
	25.4	440.1	3,601.83	560.64	346,400	9,517	24.856
	26.4	456.8	3,580.59	581.91	358,558	9,850	24.822
	27.0	466.8	3,567.87	594.65	365,806	10,049	24.802
	28.6	493.3	3,534.07	628.41	384,884	10,574	24.748
	29.4	506.5	3,517.23	645.22	394,315	10,833	24.721
	30.2	519.7	3,500.44	662.04	403,709	11,091	24.694
	31.8	546.0	3,466.96	695.54	422,285	11,601	24.640



Technical data of tubes

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728	33.3	570.5	3,435.72	726.75	439,427	12,072	24.589
	34.9	596.6	3,402.56	760.00	457,525	12,568	24.535
	36.5	622.5	3,369.55	792.99	475,303	13,057	24.482
	38.1	648.2	3,336.71	825.73	492,768	13,538	24.428
	40.0	678.7	3,297.92	864.59	513,290	14,101	24.365
	42.5	718.5	3,247.22	915.29	539,697	14,826	24.282
	45.0	758.0	3,196.91	965.61	565,502	15,535	24.200
	47.5	797.2	3,147.00	1,015.54	590,710	16,227	24.117
	50.0	836.0	3,097.48	1,064.97	615,265	16,903	24.036
730	14.0	247.2	3,870.47	314.90	201,871	5,531	25.319
	27.0	468.1	3,589.08	596.31	368,921	10,107	24.873
740	5.1	92.4	4,183.09	117.71	79,470	2,149	25.983
	5.6	101.4	4,171.63	129.17	87,089	2,354	25.965
	5.9	106.8	4,164.77	136.05	91,653	2,477	25.955
	6.4	115.8	4,153.34	147.52	99,246	2,682	25.937
	6.7	121.2	4,146.49	154.39	103,784	2,804	25.927
	7.1	128.3	4,137.36	163.44	109,748	2,967	25.913
	7.5	135.5	4,128.25	172.61	115,781	3,129	25.899
	7.9	142.6	4,119.14	181.66	121,720	3,290	25.885
	8.3	149.8	4,110.04	190.83	127,726	3,451	25.871
	8.7	156.9	4,100.96	199.87	133,632	3,612	25.857
	9.1	164.0	4,091.88	208.92	139,532	3,772	25.843
	9.5	171.1	4,082.82	217.96	145,412	3,931	25.829
	9.9	178.3	4,073.76	227.13	151,366	4,090	25.815
	10.3	185.4	4,064.72	236.18	157,227	4,248	25.801
	10.7	192.5	4,055.68	245.22	163,069	4,406	25.787
	11.0	197.8	4,048.91	251.97	167,422	4,524	25.776
	11.5	206.6	4,037.64	263.18	174,635	4,720	25.759
	11.9	213.7	4,028.64	272.23	180,445	4,876	25.745
	12.3	220.7	4,019.64	281.15	186,156	5,032	25.731
	12.7	227.8	4,010.66	290.19	191,934	5,187	25.717
	13.1	234.8	4,001.68	299.11	197,620	5,342	25.703
	13.5	241.9	3,992.72	308.15	203,373	5,496	25.690
	14.3	255.9	3,974.82	325.99	214,683	5,803	25.662
	15.1	270.0	3,956.96	343.95	226,022	6,107	25.634
	16.7	297.9	3,921.36	379.49	248,301	6,711	25.579
	17.5	311.8	3,903.62	397.20	259,328	7,009	25.551
	18.5	329.2	3,881.51	419.36	273,058	7,379	25.517
	19.1	339.6	3,868.27	432.61	281,230	7,600	25.496

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
740	19.8	351.7	3,852.85	448.03	290,704	7,856	25.472
	20.6	365.5	3,835.26	465.61	301,460	8,147	25.445
	21.4	379.3	3,817.72	483.18	312,161	8,436	25.417
	22.2	393.0	3,800.22	500.64	322,744	8,722	25.390
	23.0	406.7	3,782.76	518.09	333,273	9,007	25.362
	23.8	420.4	3,765.34	535.54	343,756	9,290	25.335
	24.6	434.0	3,747.95	552.87	354,115	9,571	25.308
	25.4	447.6	3,730.61	570.19	364,422	9,850	25.280
	28.6	501.8	3,661.65	639.24	405,045	10,946	25.172
	29.4	515.2	3,644.51	656.31	414,966	11,216	25.144
	31.8	555.4	3,593.33	707.52	444,463	12,012	25.063
	33.3	580.4	3,561.52	739.36	462,593	12,502	25.013
	34.9	606.9	3,527.75	773.12	481,638	13,017	24.959
	36.5	633.3	3,494.15	806.75	500,432	13,524	24.905
	38.1	659.5	3,460.70	840.13	518,901	14,025	24.852
	40.0	690.5	3,421.19	879.62	540,526	14,609	24.789
	42.5	731.1	3,369.55	931.34	568,481	15,363	24.706
	45.0	771.3	3,318.30	982.55	595,732	16,101	24.623
	47.5	811.2	3,267.45	1,033.38	622,369	16,821	24.541
	50.0	850.8	3,216.99	1,083.82	648,395	17,525	24.459
	52.5	890.1	3,166.92	1,133.89	673,832	18,212	24.377
	55.0	929.1	3,117.24	1,183.57	698,676	18,884	24.296
	57.5	967.8	3,067.96	1,232.87	722,943	19,539	24.215
	60.0	1,006.2	3,019.07	1,281.78	746,637	20,179	24.135
	62.5	1,044.3	2,970.57	1,330.32	769,777	20,804	24.054
	65.0	1,082.0	2,922.46	1,378.34	792,287	21,414	23.975
	70.0	1,156.6	2,827.43	1,473.38	835,775	22,589	23.817
749	10.5	191.2	4,162.48	243.57	166,082	4,435	26.112
	18.7	336.8	3,977.05	429.04	286,217	7,643	25.828
	19.1	343.8	3,968.12	437.96	291,856	7,793	25.814
	19.2	345.6	3,965.88	440.25	293,304	7,831	25.811
	20.2	363.1	3,943.59	462.55	307,340	8,206	25.776
	20.6	370.1	3,934.69	471.46	312,926	8,355	25.763
	21.0	377.0	3,925.80	480.25	318,421	8,503	25.749
	21.4	384.0	3,916.92	489.17	323,989	8,651	25.735
755	6.7	123.6	4,319.46	157.45	110,215	2,921	26.457
	7.1	131.0	4,310.14	166.88	116,692	3,090	26.443
	7.5	138.3	4,300.84	176.18	123,064	3,259	26.429
	7.9	145.6	4,291.54	185.48	129,423	3,427	26.415

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
755	8.3	152.8	4,282.26	194.65	135,678	3,595	26.401
	8.7	160.1	4,272.98	203.95	142,010	3,762	26.387
	9.1	167.4	4,263.72	213.25	148,329	3,929	26.373
	9.5	174.7	4,254.47	222.55	154,633	4,095	26.359
	9.9	181.9	4,245.22	231.72	160,835	4,261	26.345
	10.3	189.2	4,235.99	241.02	167,112	4,426	26.331
	10.7	196.4	4,226.77	250.19	173,287	4,591	26.317
	11.1	203.6	4,217.55	259.36	179,448	4,755	26.303
	11.5	210.9	4,208.35	268.66	185,686	4,918	26.289
	11.9	218.1	4,199.15	277.83	191,821	5,081	26.275
	12.3	225.3	4,189.97	287.01	197,949	5,243	26.262
	12.7	232.5	4,180.80	296.18	204,057	5,405	26.248
	13.1	239.7	4,171.63	305.35	210,152	5,567	26.234
	13.5	246.9	4,162.48	314.52	216,234	5,727	26.220
	13.9	254.1	4,153.34	323.69	222,303	5,888	26.206
	14.3	261.2	4,144.20	332.74	228,277	6,047	26.192
	14.7	268.4	4,135.08	341.91	234,320	6,207	26.178
	15.1	275.5	4,125.97	350.96	240,267	6,365	26.164
	15.5	282.7	4,116.87	360.13	246,284	6,524	26.151
	15.9	289.8	4,107.77	369.17	252,199	6,681	26.137
	16.3	297.0	4,098.69	378.34	258,190	6,838	26.123
	16.7	304.1	4,089.62	387.39	264,087	6,995	26.109
	17.1	311.2	4,080.55	396.43	269,963	7,151	26.095
	17.5	318.3	4,071.50	405.48	275,834	7,307	26.081
	17.9	325.4	4,062.46	414.52	281,685	7,462	26.068
	18.3	332.5	4,053.43	423.57	287,531	7,616	26.054
	18.7	339.6	4,044.40	432.61	293,357	7,770	26.040
	19.1	346.6	4,035.39	441.53	299,089	7,924	26.026
	19.8	359.0	4,019.64	457.32	309,212	8,191	26.002
	20.6	373.1	4,001.68	475.29	320,683	8,495	25.975
	21.4	387.2	3,983.76	493.25	332,097	8,796	25.947
	22.2	401.2	3,965.88	511.08	343,375	9,096	25.920
	23.0	415.2	3,948.04	528.92	354,610	9,394	25.892
	23.8	429.2	3,930.25	546.75	365,789	9,689	25.865
	24.6	443.1	3,912.49	564.46	376,840	9,983	25.838
	25.4	457.0	3,894.77	582.17	387,843	10,274	25.810
	27.0	484.8	3,859.45	617.58	409,697	10,852	25.756
	28.6	512.4	3,824.30	652.74	431,196	11,421	25.702
	30.2	539.8	3,789.30	687.64	452,336	11,983	25.647
	31.8	567.2	3,754.47	722.55	473,297	12,537	25.593
	33.3	592.7	3,721.96	755.03	492,619	13,049	25.543



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
755	34.9	619.8	3,687.43	789.55	512,973	13,588	25.489
	36.5	646.8	3,653.07	823.95	533,069	14,120	25.435
	38.1	673.6	3,618.87	858.09	552,822	14,644	25.382
	40.0	705.3	3,578.47	898.47	575,947	15,257	25.318
	42.5	746.8	3,525.65	951.34	605,840	16,048	25.235
	45.0	788.0	3,473.22	1,003.82	635,073	16,822	25.152
	47.5	828.8	3,421.19	1,055.80	663,587	17,578	25.070
	50.0	869.3	3,369.55	1,107.39	691,461	18,317	24.988
	52.5	909.6	3,318.30	1,158.73	718,793	19,040	24.906
	55.0	949.5	3,267.45	1,209.55	745,423	19,746	24.825
	57.5	989.1	3,216.99	1,260.00	771,455	20,436	24.744
	60.0	1,028.4	3,166.92	1,310.06	796,885	21,109	24.663
	62.5	1,067.4	3,117.24	1,359.75	821,735	21,767	24.583
762	4.0	74.8	4,465.11	95.29	68,440	1,796	26.799
	4.5	84.1	4,453.27	107.13	76,843	2,016	26.782
	5.1	95.2	4,439.09	121.27	86,848	2,280	26.761
	5.6	104.5	4,427.29	133.12	95,209	2,498	26.743
	5.9	110.0	4,420.22	140.13	100,144	2,629	26.732
	6.3	117.4	4,410.80	149.55	106,764	2,803	26.718
	6.4	119.3	4,408.44	151.97	108,463	2,846	26.715
	6.7	124.8	4,401.38	158.98	113,377	2,976	26.704
	7.1	132.2	4,391.98	168.41	119,976	3,148	26.690
	7.5	139.6	4,382.59	177.83	126,554	3,321	26.676
	7.9	146.9	4,373.21	187.13	133,033	3,492	26.662
	8.0	148.8	4,370.86	189.55	134,718	3,535	26.659
	8.3	154.3	4,363.83	196.56	139,590	3,663	26.648
	8.7	161.6	4,354.47	205.86	146,041	3,834	26.634
	9.1	169.0	4,345.12	215.29	152,571	4,004	26.620
	9.5	176.3	4,335.78	224.59	158,995	4,173	26.607
	9.9	183.6	4,326.45	233.89	165,405	4,342	26.593
	10.0	185.5	4,324.12	236.31	167,072	4,384	26.589
	10.3	190.9	4,317.13	243.18	171,794	4,510	26.579
	10.7	198.3	4,307.81	252.61	178,269	4,678	26.565
	11.1	205.6	4,298.51	261.91	184,638	4,845	26.551
	11.2	207.4	4,296.19	264.20	186,204	4,887	26.547
	11.3	209.2	4,293.87	266.50	187,775	4,928	26.544
	11.5	212.9	4,289.22	271.21	190,994	5,012	26.537
	11.9	220.1	4,279.94	280.38	197,244	5,178	26.523
	12.0	222.0	4,277.62	282.80	198,895	5,219	26.519
	12.3	227.4	4,270.67	289.68	203,573	5,343	26.509

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762	12.5	231.1	4,266.04	294.39	206,775	5,426	26.502
	12.7	234.7	4,261.41	298.98	209,888	5,508	26.495
	13.1	241.9	4,252.15	308.15	216,099	5,673	26.481
	13.2	243.8	4,249.84	310.57	217,739	5,714	26.478
	13.5	249.2	4,242.91	317.45	222,387	5,837	26.467
	13.9	256.5	4,233.68	326.75	228,662	6,000	26.453
	14.3	263.7	4,224.46	335.92	234,833	6,163	26.440
	14.7	270.9	4,215.25	345.10	240,998	6,326	26.426
	15.1	278.1	4,206.05	354.27	247,142	6,488	26.412
	15.5	285.4	4,196.86	363.57	253,364	6,649	26.398
	15.9	292.6	4,187.68	372.74	259,482	6,810	26.384
	16.0	294.4	4,185.38	375.03	261,008	6,850	26.381
	16.1	296.2	4,183.09	377.32	262,533	6,890	26.377
	16.3	299.8	4,178.51	381.91	265,587	6,970	26.370
	16.7	307.0	4,169.35	391.08	271,679	7,130	26.356
	17.1	314.1	4,160.19	400.13	277,674	7,289	26.343
	17.5	321.3	4,151.05	409.30	283,740	7,447	26.329
	17.9	328.5	4,141.92	418.47	289,793	7,606	26.315
	18.3	335.6	4,132.80	427.52	295,750	7,763	26.301
	18.5	339.2	4,128.25	432.10	298,762	7,842	26.294
	18.7	342.8	4,123.69	436.69	301,777	7,920	26.287
	19.1	349.9	4,114.59	445.73	307,702	8,077	26.274
	19.5	357.1	4,105.50	454.90	313,703	8,233	26.260
	19.8	362.4	4,098.69	461.66	318,114	8,350	26.250
	20.0	366.0	4,094.15	466.24	321,102	8,427	26.243
	20.2	369.5	4,089.62	470.70	324,004	8,505	26.236
	20.6	376.7	4,080.55	479.87	329,970	8,660	26.222
	21.0	383.8	4,071.50	488.92	335,840	8,814	26.208
	21.4	390.9	4,062.46	497.96	341,692	8,967	26.195
	21.5	392.6	4,060.20	500.13	343,091	9,006	26.191
	21.8	398.0	4,053.43	507.01	347,537	9,120	26.181
	22.2	405.0	4,044.40	515.92	353,274	9,273	26.167
	22.6	412.1	4,035.39	524.97	359,095	9,425	26.153
	23.0	419.2	4,026.39	534.01	364,896	9,577	26.140
	23.8	433.3	4,008.41	551.97	376,379	9,878	26.112
	24.6	447.4	3,990.48	569.94	387,818	10,178	26.085
	24.8	450.9	3,986.00	574.39	390,642	10,253	26.078
	25.0	454.4	3,981.53	578.85	393,469	10,327	26.071
	25.4	461.4	3,972.58	587.77	399,114	10,476	26.058
	25.6	464.9	3,968.12	592.23	401,932	10,550	26.051
	26.2	475.4	3,954.73	605.61	410,368	10,771	26.030

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762	26.6	482.4	3,945.82	614.52	415,969	10,918	26.017
	27.0	489.4	3,936.91	623.44	421,565	11,065	26.003
	27.4	496.4	3,928.02	632.36	427,150	11,211	25.990
	27.8	503.4	3,919.14	641.27	432,715	11,357	25.976
	28.2	510.3	3,910.27	650.06	438,187	11,502	25.962
	28.6	517.3	3,901.41	658.98	443,735	11,646	25.949
	29.0	524.2	3,892.56	667.77	449,184	11,790	25.935
	29.4	531.2	3,883.71	676.69	454,708	11,934	25.922
	29.6	534.6	3,879.30	681.02	457,378	12,006	25.915
	29.8	538.1	3,874.88	685.48	460,133	12,077	25.908
	30.2	545.0	3,866.06	694.27	465,546	12,220	25.895
	31.8	572.7	3,830.87	729.55	487,160	12,785	25.840
	33.3	598.4	3,798.03	762.29	507,030	13,309	25.790
	34.9	625.8	3,763.16	797.20	528,038	13,859	25.736
	35.5	636.1	3,750.12	810.32	535,887	14,064	25.716
	36.5	653.1	3,728.45	831.97	548,770	14,403	25.682
	38.1	680.2	3,693.89	866.50	569,164	14,938	25.629
	38.5	687.0	3,685.28	875.16	574,252	15,071	25.615
	39.0	695.4	3,674.53	885.86	580,515	15,236	25.599
	40.0	712.2	3,653.07	907.26	592,990	15,565	25.565
	70.0	1,194.6	3,038.58	1,521.78	920,228	24,153	24.590
774	24.5	452.9	4,128.25	576.94	405,553	10,478	26.512
	27.0	497.4	4,071.50	633.63	442,542	11,435	26.427
	28.0	515.1	4,048.91	656.18	457,111	11,812	26.393
	28.6	525.8	4,035.39	669.81	465,886	12,037	26.373
	36.5	663.9	3,859.45	845.73	576,406	14,893	26.106
	37.5	681.1	3,837.46	867.64	589,820	15,241	26.072
	38.1	691.5	3,824.30	880.89	597,905	15,449	26.052
	43.0	775.2	3,717.63	987.52	661,898	17,103	25.889
780	6.4	122.1	4,622.82	155.54	116,363	2,984	27.351
	6.7	127.8	4,615.59	162.80	121,701	3,120	27.341
	7.1	135.3	4,605.96	172.36	128,715	3,301	27.327
	7.5	142.9	4,596.34	182.04	135,805	3,482	27.313
	7.9	150.4	4,586.73	191.59	142,783	3,662	27.299
	8.3	158.0	4,577.14	201.27	149,843	3,841	27.285
	8.7	165.5	4,567.55	210.83	156,799	4,020	27.271
	9.1	173.0	4,557.97	220.38	163,734	4,198	27.257
	9.5	180.5	4,548.40	229.94	170,662	4,376	27.243
	9.9	188.0	4,538.84	239.49	177,568	4,553	27.229

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780	10.3	195.5	4,529.30	249.04	184,459	4,730	27.215
	10.7	203.0	4,519.76	258.60	191,344	4,906	27.201
	11.1	210.5	4,510.23	268.15	198,207	5,082	27.187
	11.5	218.0	4,500.71	277.71	205,063	5,257	27.173
	11.9	225.4	4,491.20	287.13	211,801	5,431	27.159
	12.3	232.9	4,481.71	296.69	218,629	5,605	27.145
	12.7	240.3	4,472.22	306.11	225,339	5,778	27.131
	13.1	247.8	4,462.74	315.67	232,139	5,951	27.117
	13.5	255.2	4,453.27	325.10	238,828	6,124	27.104
	14.3	270.0	4,434.37	343.95	252,159	6,466	27.076
	15.1	284.8	4,415.51	362.80	265,434	6,807	27.048
	15.9	299.6	4,396.68	381.66	278,660	7,145	27.020
	16.7	314.4	4,377.90	400.51	291,825	7,482	26.993
	17.5	329.1	4,359.15	419.24	304,846	7,816	26.965
	18.3	343.8	4,340.45	437.96	317,807	8,148	26.937
	19.1	358.4	4,321.79	456.56	330,626	8,478	26.910
	19.8	371.2	4,305.49	472.87	341,824	8,765	26.886
	20.6	385.8	4,286.90	491.46	354,535	9,091	26.858
	21.4	400.4	4,268.35	510.06	367,200	9,414	26.831
	22.2	414.9	4,249.84	528.54	379,725	9,736	26.803
	23.0	429.4	4,231.38	547.01	392,191	10,056	26.776
	23.8	443.9	4,212.95	565.48	404,604	10,373	26.748
	24.6	458.3	4,194.56	583.82	416,873	10,689	26.721
	25.4	472.7	4,176.21	602.17	429,096	11,002	26.694
	27.0	501.4	4,139.64	638.73	453,289	11,623	26.639
	28.6	530.0	4,103.23	675.16	477,186	12,235	26.585
	29.4	544.2	4,085.08	693.25	488,971	12,538	26.558
	30.2	558.4	4,066.98	711.34	500,705	12,839	26.530
	31.8	586.8	4,030.89	747.52	524,025	13,436	26.476
	33.3	613.2	3,997.20	781.15	545,506	13,988	26.426
	34.9	641.3	3,961.42	816.94	568,174	14,569	26.372
	38.1	697.1	3,890.34	888.03	612,593	15,707	26.264
	40.0	730.0	3,848.45	929.94	638,404	16,369	26.201
	42.5	773.0	3,793.67	984.71	671,711	17,223	26.117
	45.0	815.7	3,739.28	1,039.11	704,322	18,059	26.034
	47.5	858.1	3,685.28	1,093.12	736,233	18,877	25.952
	50.0	900.2	3,631.68	1,146.75	767,462	19,677	25.869
787	6.3	121.3	4,709.99	154.52	117,731	2,992	27.602
	6.7	128.9	4,700.27	164.20	124,979	3,177	27.588
	7.1	136.6	4,690.55	174.01	132,312	3,361	27.574

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
787	7.5	144.2	4,680.84	183.69	139,530	3,545	27.560
	7.9	151.8	4,671.15	193.38	146,741	3,729	27.546
	8.3	159.4	4,661.46	203.06	153,930	3,912	27.532
	8.7	167.0	4,651.78	212.74	161,104	4,094	27.518
	9.1	174.6	4,642.12	222.42	168,264	4,276	27.504
	9.5	182.2	4,632.46	232.10	175,409	4,457	27.490
	9.9	189.7	4,622.82	241.66	182,448	4,637	27.476
	10.3	197.3	4,613.18	251.34	189,563	4,817	27.462
	10.7	204.9	4,603.56	261.02	196,664	4,997	27.448
	11.1	212.4	4,593.94	270.57	203,653	5,175	27.435
	11.5	219.9	4,584.33	280.13	210,634	5,354	27.421
	11.9	227.5	4,574.74	289.81	217,691	5,531	27.407
	12.3	235.0	4,565.15	299.36	224,637	5,709	27.393
	12.7	242.5	4,555.58	308.92	231,575	5,885	27.379
	13.1	250.0	4,546.01	318.47	238,491	6,061	27.365
	13.5	257.5	4,536.46	328.03	245,401	6,237	27.351
	14.3	272.5	4,517.38	347.13	259,163	6,586	27.323
	15.1	287.5	4,498.33	366.24	272,875	6,933	27.296
	15.9	302.4	4,479.33	385.22	286,434	7,278	27.268
	16.7	317.3	4,460.37	404.20	299,937	7,621	27.240
	17.5	332.1	4,441.45	423.06	313,295	7,962	27.212
	18.3	346.9	4,422.57	441.91	326,591	8,300	27.185
	19.1	361.7	4,403.74	460.76	339,831	8,636	27.157
	19.8	374.6	4,387.28	477.20	351,331	8,929	27.133
	20.6	389.4	4,368.52	496.05	364,469	9,261	27.106
	21.4	404.1	4,349.80	514.78	377,463	9,591	27.078
	22.2	418.7	4,331.11	533.38	390,309	9,919	27.051
	23.0	433.4	4,312.47	552.10	403,188	10,245	27.023
	23.8	448.0	4,293.87	570.70	415,927	10,569	26.996
	25.4	477.1	4,256.78	607.77	441,150	11,210	26.941
	27.0	506.1	4,219.85	644.71	466,068	11,843	26.887
	28.6	534.9	4,183.09	681.40	490,598	12,468	26.832
	29.4	549.3	4,164.77	699.75	502,790	12,777	26.805
	30.2	563.7	4,146.49	718.09	514,923	13,085	26.778
	31.8	592.3	4,110.04	754.52	538,858	13,693	26.724
	33.3	619.0	4,076.03	788.54	561,019	14,256	26.673
	34.9	647.3	4,039.89	824.59	584,297	14,849	26.619
	36.5	675.6	4,003.93	860.64	607,378	15,434	26.565
	38.1	703.7	3,968.12	896.43	630,081	16,012	26.511
	40.0	736.9	3,925.80	938.73	656,652	16,687	26.448
	42.5	780.3	3,870.47	994.01	690,944	17,559	26.364



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
787	45.0	823.5	3,815.53	1,049.04	724,610	18,413	26.281
794	16.3	312.6	4,553.18	398.22	301,195	7,587	27.501
	16.7	320.1	4,543.62	407.77	308,108	7,762	27.488
800	5.6	109.7	4,886.79	139.75	110,246	2,756	28.087
	5.9	115.5	4,879.35	147.13	115,981	2,901	28.076
	6.4	125.3	4,866.98	159.62	125,669	3,141	28.058
	6.7	131.1	4,859.57	167.01	131,389	3,284	28.048
	7.1	138.8	4,849.69	176.82	138,967	3,475	28.034
	7.5	146.6	4,839.82	186.75	146,625	3,665	28.020
	7.9	154.3	4,829.96	196.56	154,173	3,855	28.006
	8.3	162.1	4,820.11	206.50	161,808	4,044	27.992
	8.7	169.8	4,810.27	216.31	169,325	4,232	27.978
	9.1	177.5	4,800.44	226.11	176,820	4,420	27.964
	9.5	185.2	4,790.62	235.92	184,307	4,608	27.950
	9.9	192.9	4,780.81	245.73	191,779	4,795	27.936
	10.3	200.6	4,771.01	255.54	199,236	4,981	27.922
	10.7	208.3	4,761.22	265.35	206,678	5,166	27.908
	11.1	216.0	4,751.44	275.16	214,104	5,352	27.894
	11.5	223.6	4,741.67	284.84	221,415	5,536	27.880
	11.9	231.3	4,731.91	294.65	228,812	5,720	27.866
	12.3	238.9	4,722.16	304.33	236,093	5,903	27.852
	12.7	246.6	4,712.43	314.14	243,460	6,086	27.838
	13.1	254.2	4,702.70	323.82	250,711	6,268	27.824
	13.5	261.9	4,692.98	333.63	258,048	6,450	27.811
	14.3	277.1	4,673.57	352.99	272,477	6,812	27.783
	15.1	292.3	4,654.20	372.36	286,855	7,171	27.755
	15.9	307.5	4,634.88	391.72	301,167	7,528	27.727
	16.7	322.6	4,615.59	410.96	315,328	7,883	27.700
	17.5	337.7	4,596.34	430.19	329,425	8,236	27.672
	18.3	352.8	4,577.14	449.43	343,471	8,586	27.644
	18.9	364.1	4,562.76	463.82	353,938	8,848	27.624
	19.0	366.0	4,560.36	466.24	355,696	8,891	27.620
	19.1	367.8	4,557.97	468.54	357,361	8,935	27.617
	19.8	381.0	4,541.23	485.35	369,536	9,238	27.593
	20.2	388.5	4,531.68	494.90	376,431	9,410	27.579
	20.6	396.0	4,522.14	504.46	383,319	9,582	27.565
	21.4	410.9	4,503.09	523.44	396,948	9,924	27.538
	22.2	425.8	4,484.08	542.42	410,521	10,264	27.510
	23.0	440.7	4,465.11	561.40	424,038	10,602	27.483



Technical data of tubes

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800	23.8	455.6	4,446.18	580.38	437,500	10,937	27.455
	24.8	474.1	4,422.57	603.95	454,133	11,354	27.421
	25.4	485.2	4,408.44	618.09	464,070	11,602	27.400
	27.0	514.7	4,370.86	655.67	490,325	12,258	27.346
	28.6	544.1	4,333.45	693.12	516,267	12,906	27.291
	29.4	558.7	4,314.80	711.72	529,065	13,227	27.264
	30.2	573.3	4,296.19	730.32	541,810	13,546	27.237
	31.8	602.5	4,259.09	767.52	567,142	14,177	27.183
	33.3	629.6	4,224.46	802.04	590,440	14,762	27.132
	34.9	658.5	4,187.68	838.85	615,083	15,377	27.078
	36.5	687.3	4,151.05	875.54	639,434	15,985	27.024
	38.1	715.9	4,114.59	911.97	663,393	16,585	26.970
	40.0	749.7	4,071.50	955.03	691,442	17,286	26.907
	42.5	794.0	4,015.15	1,011.46	727,761	18,193	26.823
	45.0	837.9	3,959.19	1,067.39	763,251	19,081	26.740
	47.5	881.5	3,903.62	1,122.93	798,000	19,950	26.657
	50.0	924.8	3,848.45	1,178.09	832,026	20,801	26.575
805	22.2	428.6	4,543.62	545.99	418,548	10,398	27.687
	22.6	436.1	4,534.07	555.54	425,447	10,569	27.673
	24.2	466.0	4,495.96	593.63	452,817	11,250	27.618
	24.6	473.5	4,486.45	603.18	459,645	11,419	27.604
	25.4	488.4	4,467.48	622.17	473,177	11,755	27.577
	25.8	495.8	4,458.01	631.59	479,865	11,922	27.563
	26.2	503.2	4,448.54	641.02	486,547	12,088	27.550
	26.6	510.6	4,439.09	650.45	493,215	12,254	27.536
	27.0	518.0	4,429.65	659.87	499,862	12,420	27.523
	50.0	931.0	3,903.62	1,185.99	848,761	21,087	26.751
807	53.0	982.9	3,837.46	1,252.10	889,481	22,099	26.653
	17.9	348.3	4,671.15	443.69	345,523	8,564	27.906
	18.3	356.0	4,661.46	453.50	352,813	8,743	27.892
	19.1	371.1	4,642.12	472.74	367,054	9,097	27.864
	50.0	933.5	3,925.80	1,189.17	855,532	21,201	26.822
810	53.0	985.5	3,859.45	1,255.41	896,559	22,220	26.723
	23.8	461.5	4,565.15	587.90	454,650	11,225	27.809
	24.2	469.0	4,555.58	597.45	461,580	11,396	27.795
813	24.6	476.5	4,546.01	607.01	468,504	11,568	27.781
	5.0	99.6	5,064.31	126.88	103,548	2,548	28.567

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813	5.6	111.5	5,049.19	142.04	115,749	2,848	28.546
	5.9	117.4	5,041.63	149.55	121,780	2,997	28.536
	6.0	119.4	5,039.12	152.10	123,826	3,046	28.532
	6.3	125.3	5,031.57	159.62	129,852	3,195	28.522
	6.4	127.3	5,029.06	162.17	131,894	3,245	28.518
	6.6	131.3	5,024.03	167.26	135,967	3,344	28.511
	6.7	133.2	5,021.52	169.68	137,900	3,393	28.507
	6.8	135.2	5,019.01	172.23	139,938	3,442	28.504
	7.0	139.1	5,013.99	177.20	143,905	3,541	28.497
	7.1	141.1	5,011.48	179.75	145,940	3,590	28.493
	7.4	147.0	5,003.95	187.26	151,925	3,738	28.483
	7.5	149.0	5,001.44	189.81	153,956	3,787	28.479
	7.9	156.9	4,991.42	199.87	161,957	3,983	28.465
	8.0	158.8	4,988.92	202.29	163,877	4,032	28.462
	8.3	164.7	4,981.41	209.81	169,844	4,179	28.451
	8.5	168.6	4,976.40	214.78	173,782	4,276	28.444
	8.7	172.6	4,971.40	219.87	177,813	4,373	28.437
	8.8	174.5	4,968.90	222.29	179,726	4,422	28.434
	9.0	178.5	4,963.91	227.39	183,759	4,519	28.427
	9.1	180.4	4,961.41	229.81	185,669	4,568	28.424
	9.2	182.4	4,958.91	232.36	187,683	4,616	28.420
	9.3	184.3	4,956.42	234.78	189,591	4,665	28.417
	9.5	188.3	4,951.43	239.87	193,606	4,761	28.410
	9.8	194.1	4,943.95	247.26	199,423	4,906	28.399
	9.9	196.1	4,941.46	249.81	201,430	4,955	28.396
	10.0	198.0	4,938.96	252.23	203,332	5,003	28.392
	10.3	203.9	4,931.49	259.75	209,240	5,147	28.382
	10.5	207.8	4,926.52	264.71	213,130	5,243	28.375
	10.7	211.7	4,921.54	269.68	217,025	5,339	28.368
	10.8	213.7	4,919.05	272.23	219,023	5,387	28.364
	11.0	217.6	4,914.08	277.20	222,912	5,483	28.357
	11.1	219.5	4,911.60	279.62	224,803	5,531	28.354
	11.5	227.3	4,901.67	289.55	232,557	5,721	28.340
	11.9	235.1	4,891.74	299.49	240,304	5,912	28.326
	12.0	237.1	4,889.26	302.04	242,291	5,959	28.322
	12.3	242.9	4,881.83	309.43	248,036	6,101	28.312
	12.5	246.8	4,876.88	314.39	251,888	6,196	28.305
	12.7	250.7	4,871.93	319.36	255,744	6,290	28.298
	13.0	256.5	4,864.51	326.75	261,469	6,432	28.288
	13.1	258.4	4,862.04	329.17	263,341	6,479	28.284
	13.5	266.2	4,852.15	339.11	271,026	6,667	28.270

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Technical data of tubes

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813	13.9	273.9	4,842.28	348.92	278,593	6,854	28.256
	14.0	275.9	4,839.82	351.46	280,552	6,901	28.253
	14.2	279.7	4,834.88	356.31	284,283	6,994	28.246
	14.3	281.7	4,832.42	358.85	286,240	7,041	28.242
	14.5	285.5	4,827.49	363.69	289,958	7,134	28.235
	14.7	289.4	4,822.57	368.66	293,775	7,227	28.228
	15.0	295.2	4,815.19	376.05	299,444	7,366	28.218
	15.1	297.1	4,812.73	378.47	301,296	7,413	28.215
	15.5	304.9	4,802.89	388.41	308,906	7,598	28.201
	15.9	312.6	4,793.07	398.22	316,396	7,782	28.187
	16.0	314.5	4,790.62	400.64	318,241	7,828	28.183
	16.3	320.3	4,783.26	408.03	323,872	7,966	28.173
	16.7	328.0	4,773.46	417.83	331,325	8,150	28.159
	17.0	333.7	4,766.11	425.10	336,841	8,287	28.149
	17.1	335.6	4,763.67	427.52	338,676	8,332	28.145
	17.5	343.3	4,753.89	437.32	346,099	8,515	28.131
	17.9	351.0	4,744.11	447.13	353,515	8,696	28.118
	18.0	352.9	4,741.67	449.55	355,341	8,742	28.114
	18.3	358.7	4,734.35	456.94	360,916	8,878	28.104
	18.5	362.5	4,729.48	461.78	364,559	8,968	28.097
	18.7	366.3	4,724.60	466.62	368,199	9,058	28.090
	19.0	372.1	4,717.29	474.01	373,755	9,193	28.080
	19.1	374.0	4,714.86	476.43	375,571	9,238	28.076
	19.8	387.3	4,697.84	493.38	388,264	9,552	28.052
	20.0	391.1	4,692.98	498.22	391,881	9,641	28.045
	20.2	395.0	4,688.12	503.18	395,587	9,730	28.038
	20.6	402.6	4,678.42	512.87	402,810	9,908	28.025
	21.4	417.8	4,659.04	532.23	417,194	10,262	27.997
	21.5	419.7	4,656.62	534.65	418,988	10,307	27.994
	21.8	425.4	4,649.37	541.91	424,365	10,439	27.983
	22.2	433.0	4,639.70	551.59	431,521	10,614	27.970
	22.5	438.6	4,632.46	558.73	436,785	10,746	27.959
	23.0	448.1	4,620.41	570.83	445,696	10,964	27.942
	23.8	463.2	4,601.15	590.06	459,807	11,312	27.915
	24.2	470.8	4,591.54	599.75	466,899	11,485	27.901
	24.6	478.3	4,581.93	609.30	473,868	11,657	27.887
	25.0	485.8	4,572.34	618.85	480,823	11,829	27.874
	25.4	493.4	4,562.76	628.54	487,872	12,001	27.860
	25.8	500.9	4,553.18	638.09	494,799	12,171	27.846
	26.2	508.4	4,543.62	647.64	501,711	12,342	27.833
	27.0	523.4	4,524.53	666.75	515,502	12,681	27.805

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813	27.4	530.9	4,514.99	676.31	522,380	12,849	27.792
	27.7	536.5	4,507.85	683.44	527,499	12,976	27.781
	27.8	538.3	4,505.47	685.73	529,137	13,018	27.778
	28.2	545.8	4,495.96	695.29	535,987	13,185	27.764
	28.4	549.5	4,491.20	700.00	539,353	13,269	27.757
	28.6	553.3	4,486.45	704.84	542,816	13,352	27.751
	29.4	568.2	4,467.48	723.82	556,340	13,685	27.723
	30.0	579.3	4,453.27	737.96	566,374	13,933	27.703
	30.2	583.0	4,448.54	742.68	569,717	14,015	27.696
	30.8	594.2	4,434.37	756.94	579,802	14,262	27.676
	31.8	612.7	4,410.80	780.51	596,392	14,670	27.642
	32.2	620.0	4,401.38	789.81	602,907	14,832	27.628
	32.5	625.6	4,394.33	796.94	607,902	14,954	27.618
	33.3	640.3	4,375.55	815.67	620,971	15,276	27.591
	34.9	669.7	4,338.11	853.12	646,940	15,915	27.537
	35.5	680.7	4,324.12	867.13	656,598	16,152	27.517
	36.5	699.0	4,300.84	890.45	672,606	16,545	27.483
	37.5	717.2	4,277.62	913.63	688,428	16,935	27.450
	38.1	728.1	4,263.72	927.52	697,868	17,168	27.429
	39.0	744.4	4,242.91	948.28	711,918	17,514	27.399
815	40.0	762.5	4,219.85	971.34	727,447	17,896	27.366
	42.5	807.6	4,162.48	1,028.79	765,775	18,838	27.282
	44.0	834.5	4,128.25	1,063.06	788,388	19,393	27.232
	45.0	852.3	4,105.50	1,085.73	803,235	19,760	27.199
	47.5	896.7	4,048.91	1,142.29	839,935	20,663	27.116
	50.0	940.9	3,992.72	1,198.60	875,980	21,548	27.033
	11.0	218.1	4,938.96	277.83	224,534	5,510	28.428
820	5.6	112.5	5,137.74	143.31	118,818	2,897	28.794
	5.9	118.5	5,130.12	150.96	125,069	3,049	28.783
	6.3	126.4	5,119.97	161.02	133,274	3,251	28.769
	6.7	134.4	5,109.82	171.21	141,570	3,452	28.755
	7.1	142.3	5,099.69	181.27	149,742	3,653	28.741
	7.5	150.3	5,089.57	191.46	158,005	3,853	28.727
	7.9	158.2	5,079.46	201.53	166,154	4,053	28.713
	8.3	166.2	5,069.36	211.72	174,385	4,252	28.699
	8.7	174.1	5,059.27	221.78	182,493	4,450	28.685
	9.0	180.0	5,051.71	229.30	188,542	4,599	28.674
	9.1	182.0	5,049.19	231.85	190,593	4,648	28.671
	9.5	189.9	5,039.12	241.91	198,669	4,845	28.657

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
820	9.9	197.8	5,029.06	251.97	206,729	5,042	28.643
	10.0	199.8	5,026.54	254.52	208,770	5,091	28.640
	10.3	205.7	5,019.01	262.04	214,781	5,238	28.629
	10.7	213.6	5,008.97	272.10	222,809	5,433	28.615
	11.1	221.4	4,998.94	282.04	230,724	5,628	28.601
	11.5	229.3	4,988.92	292.10	238,720	5,822	28.587
	11.9	237.2	4,978.91	302.17	246,709	6,016	28.573
	12.0	239.1	4,976.40	304.59	248,625	6,064	28.570
	12.3	245.0	4,968.90	312.10	254,569	6,209	28.559
	12.7	252.9	4,958.91	322.17	262,526	6,402	28.545
	13.0	258.7	4,951.43	329.55	268,344	6,546	28.535
	13.1	260.7	4,948.93	332.10	270,354	6,594	28.531
	13.5	268.5	4,938.96	342.04	278,175	6,785	28.518
	13.9	276.3	4,929.00	351.97	285,971	6,976	28.504
	14.3	284.1	4,919.05	361.91	293,761	7,166	28.490
	14.7	291.9	4,909.11	371.85	301,535	7,355	28.476
	15.0	297.8	4,901.67	379.36	307,400	7,497	28.465
	15.1	299.7	4,899.18	381.78	309,286	7,545	28.462
	15.5	307.5	4,889.26	391.72	317,029	7,733	28.448
	15.9	315.3	4,879.35	401.66	324,757	7,921	28.434
	16.3	323.1	4,869.45	411.59	332,462	8,108	28.420
	16.7	330.8	4,859.57	421.40	340,054	8,295	28.407
	17.0	336.7	4,852.15	428.92	345,869	8,435	28.396
	17.5	346.3	4,839.82	441.15	355,298	8,667	28.379
	18.3	361.8	4,820.11	460.89	370,474	9,036	28.351
	19.1	377.3	4,800.44	480.64	385,597	9,404	28.324
	19.8	390.7	4,783.26	497.71	398,611	9,723	28.300
	20.6	406.1	4,763.67	517.32	413,510	10,086	28.272
	21.4	421.5	4,744.11	536.94	428,357	10,447	28.244
	22.2	436.8	4,724.60	556.43	443,042	10,806	28.217
	23.0	452.1	4,705.13	575.92	457,668	11,162	28.189
	23.8	467.3	4,685.70	595.29	472,140	11,516	28.162
	24.0	471.1	4,680.84	600.13	475,747	11,604	28.155
	24.6	482.6	4,666.30	614.78	486,649	11,868	28.135
	25.0	490.2	4,656.62	624.46	493,831	12,043	28.121
	25.4	497.7	4,646.95	634.01	500,895	12,218	28.107
	27.0	528.0	4,608.37	672.61	529,326	12,911	28.053
	28.6	558.2	4,569.94	711.08	557,426	13,596	27.998
	29.4	573.2	4,550.79	730.19	571,294	13,935	27.971
	30.2	588.2	4,531.68	749.30	585,106	14,272	27.944
	31.8	618.1	4,493.58	787.39	612,462	14,939	27.889

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
820	33.3	646.1	4,458.01	823.06	637,877	15,557	27.838
	34.9	675.7	4,420.22	860.76	664,507	16,208	27.784
	36.5	705.3	4,382.59	898.47	690,929	16,851	27.730
	38.1	734.7	4,345.12	935.92	716,937	17,486	27.677
	40.0	769.5	4,300.84	980.25	747,441	18,229	27.613
	42.5	814.9	4,242.91	1,038.09	786,759	19,189	27.529
	45.0	860.1	4,185.38	1,095.67	825,382	20,131	27.446
	47.5	904.9	4,128.25	1,152.74	863,132	21,053	27.363
	50.0	949.5	4,071.50	1,209.55	900,208	21,956	27.280
	53.0	1,002.5	4,003.93	1,277.07	943,592	23,015	27.182
	70.0	1,294.8	3,631.68	1,649.43	1,169,858	28,532	26.631
825	28.0	550.4	4,644.53	701.15	557,408	13,512	28.195
	31.6	618.3	4,557.97	787.64	620,741	15,048	28.073
826	6.7	135.4	5,186.13	172.48	144,732	3,504	28.967
	7.1	143.4	5,175.92	182.68	153,142	3,708	28.953
	7.5	151.4	5,165.72	192.87	161,528	3,911	28.939
	7.9	159.4	5,155.54	203.06	169,898	4,113	28.925
	8.3	167.4	5,145.36	213.25	178,251	4,315	28.911
	8.7	175.4	5,135.20	223.44	186,588	4,517	28.897
	9.1	183.3	5,125.04	233.50	194,800	4,718	28.883
	9.5	191.3	5,114.89	243.69	203,104	4,918	28.869
	9.9	199.3	5,104.76	253.89	211,401	5,117	28.855
	10.3	207.2	5,094.63	263.95	219,564	5,316	28.841
	10.7	215.1	5,084.52	274.01	227,712	5,515	28.827
	11.1	223.1	5,074.41	284.20	235,952	5,713	28.813
	11.5	231.0	5,064.31	294.27	244,076	5,910	28.799
	11.9	238.9	5,054.23	304.33	252,176	6,106	28.785
	12.3	246.8	5,044.15	314.39	260,260	6,302	28.771
	12.7	254.7	5,034.09	324.46	268,336	6,498	28.758
	13.1	262.6	5,024.03	334.52	276,388	6,693	28.744
	13.5	270.5	5,013.99	344.59	284,433	6,887	28.730
	14.3	286.3	4,993.92	364.71	300,458	7,274	28.702
	14.7	294.1	4,983.91	374.65	308,348	7,466	28.688
	15.1	302.0	4,973.90	384.71	316,322	7,658	28.674
	15.9	317.7	4,953.92	404.71	332,123	8,041	28.646
	16.7	333.3	4,933.98	424.59	347,763	8,421	28.619
	17.5	348.9	4,914.08	444.46	363,334	8,798	28.591
	18.3	364.5	4,894.22	464.33	378,844	9,173	28.563
	19.1	380.1	4,874.40	484.20	394,292	9,547	28.536

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826	19.8	393.7	4,857.09	501.53	407,713	9,871	28.512
	20.6	409.2	4,837.35	521.27	422,941	10,240	28.484
	21.4	424.6	4,817.65	540.89	438,012	10,606	28.456
	22.2	440.1	4,797.98	560.64	453,128	10,971	28.429
	23.0	455.5	4,778.36	580.25	468,072	11,333	28.401
	23.8	470.9	4,758.77	599.87	482,964	11,693	28.374
	24.6	486.2	4,739.23	619.36	497,692	12,050	28.347
	25.4	501.5	4,719.73	638.85	512,362	12,406	28.319
	26.4	520.6	4,695.41	663.18	530,591	12,847	28.285
	27.0	532.0	4,680.84	677.71	541,431	13,110	28.265
	28.6	562.4	4,642.12	716.43	570,157	13,806	28.210
	29.4	577.6	4,622.82	735.80	584,442	14,150	28.183
	30.2	592.7	4,603.56	755.03	598,559	14,493	28.156
	31.8	622.9	4,565.15	793.50	626,632	15,171	28.101
	33.3	651.0	4,529.30	829.30	652,537	15,800	28.050
	33.8	660.4	4,517.38	841.27	661,158	16,007	28.033
	34.9	680.9	4,491.20	867.39	679,879	16,462	27.996
	36.5	710.7	4,453.27	905.35	706,900	17,115	27.942
	38.1	740.3	4,415.51	943.06	733,510	17,761	27.889
	40.0	775.4	4,370.86	987.77	764,776	18,517	27.825
827	42.5	821.2	4,312.47	1,046.11	805,084	19,494	27.741
	45.0	866.7	4,254.47	1,104.08	844,602	20,451	27.658
	47.5	912.0	4,196.86	1,161.78	883,415	21,389	27.575
	50.0	956.9	4,139.64	1,218.98	921,360	22,308	27.492
829	33.8	661.2	4,529.30	842.29	663,628	16,049	28.069
829	28.6	564.5	4,678.42	719.11	576,599	13,912	28.316
833	32.0	632.1	4,644.53	805.22	646,818	15,531	28.342
838	6.7	137.4	5,340.43	175.03	151,205	3,608	29.391
	7.1	145.5	5,330.07	185.35	159,968	3,818	29.377
	7.5	153.6	5,319.73	195.67	168,713	4,027	29.363
	7.9	161.7	5,309.39	205.99	177,442	4,236	29.349
	8.3	169.8	5,299.06	216.31	186,154	4,444	29.335
	8.7	177.9	5,288.74	226.62	194,841	4,651	29.321
	9.1	186.0	5,278.44	236.94	203,519	4,858	29.307
	9.5	194.1	5,268.14	247.26	212,181	5,064	29.293
	9.9	202.2	5,257.85	257.58	220,826	5,270	29.279
	10.3	210.3	5,247.58	267.90	229,454	5,475	29.265

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838	10.7	218.3	5,237.31	278.09	237,955	5,679	29.251
	11.1	226.4	5,227.05	288.41	246,550	5,883	29.237
	11.5	234.4	5,216.81	298.60	255,017	6,086	29.223
	11.9	242.4	5,206.57	308.79	263,468	6,289	29.210
	12.3	250.5	5,196.34	319.11	272,014	6,491	29.196
	12.7	258.5	5,186.13	329.30	280,432	6,693	29.182
	13.1	266.5	5,175.92	339.49	288,835	6,893	29.168
	13.5	274.5	5,165.72	349.68	297,220	7,094	29.154
	14.3	290.5	5,145.36	370.06	313,943	7,492	29.126
	15.1	306.4	5,125.04	390.32	330,500	7,889	29.098
	15.9	322.4	5,104.76	410.70	347,093	8,283	29.071
	16.7	338.3	5,084.52	430.96	363,522	8,675	29.043
	17.5	354.1	5,064.31	451.08	379,768	9,064	29.015
	18.5	373.9	5,039.12	476.31	400,054	9,547	28.981
	19.1	385.7	5,024.03	491.34	412,088	9,836	28.960
	19.8	399.5	5,006.46	508.92	426,121	10,171	28.936
	20.6	415.3	4,986.41	529.04	442,123	10,551	28.908
	21.4	431.0	4,966.41	549.04	457,964	10,929	28.881
	22.2	446.6	4,946.44	568.92	473,642	11,305	28.853
	23.0	462.3	4,926.52	588.92	489,359	11,679	28.826
	24.6	493.5	4,886.79	628.66	520,393	12,419	28.771
	25.4	509.0	4,866.98	648.41	535,720	12,786	28.743
	28.6	570.9	4,788.17	727.26	596,304	14,231	28.634
	31.8	632.3	4,709.99	805.48	655,429	15,641	28.525
	34.9	691.2	4,634.88	880.51	711,218	16,975	28.420
	38.1	751.6	4,557.97	957.45	767,506	18,317	28.312
	39.0	768.5	4,536.46	978.98	783,089	18,689	28.282
	40.0	787.2	4,512.61	1,002.80	800,239	19,099	28.248
	42.5	833.8	4,453.27	1,062.17	842,602	20,109	28.165
	45.0	880.1	4,394.33	1,121.15	884,131	21,100	28.081
	47.5	926.0	4,335.78	1,179.62	924,743	22,070	27.998
	50.0	971.7	4,277.62	1,237.83	964,647	23,022	27.916
	52.5	1,017.0	4,219.85	1,295.54	1,003,665	23,954	27.833
	55.0	1,062.1	4,162.48	1,352.99	1,041,995	24,868	27.751
	57.5	1,106.8	4,105.50	1,409.94	1,079,462	25,762	27.669
	60.0	1,151.2	4,048.91	1,466.50	1,116,160	26,639	27.588
	62.5	1,195.3	3,992.72	1,522.68	1,152,110	27,497	27.506
	65.0	1,239.1	3,936.91	1,578.47	1,187,313	28,337	27.426
	67.5	1,282.6	3,881.51	1,633.89	1,221,795	29,160	27.345
	70.0	1,325.8	3,826.49	1,688.92	1,255,552	29,966	27.265

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849	40.0	798.1	4,644.53	1,016.69	833,789	19,640	28.637
863	5.9	124.7	5,690.53	158.85	145,875	3,381	30.303
	6.3	133.1	5,679.84	169.55	155,557	3,605	30.289
	6.7	141.5	5,669.16	180.25	165,221	3,829	30.275
	7.1	149.9	5,658.49	190.96	174,875	4,052	30.261
	7.5	158.2	5,647.82	201.53	184,384	4,274	30.247
	7.9	166.6	5,637.17	212.23	193,994	4,496	30.233
	8.3	175.0	5,626.53	222.93	203,586	4,717	30.219
	8.7	183.3	5,615.90	233.50	213,041	4,937	30.205
	8.8	185.4	5,613.25	236.18	215,436	4,992	30.202
	9.1	191.6	5,605.28	244.08	222,487	5,157	30.191
	9.5	200.0	5,594.67	254.78	232,026	5,376	30.177
	9.9	208.3	5,584.07	265.35	241,428	5,595	30.163
	10.0	210.4	5,581.42	268.03	243,810	5,649	30.160
	10.3	216.6	5,573.48	275.92	250,812	5,813	30.149
	10.7	224.9	5,562.90	286.50	260,188	6,030	30.135
	11.1	233.2	5,552.33	297.07	269,538	6,247	30.121
	11.5	241.5	5,541.76	307.64	278,870	6,463	30.107
	11.9	249.8	5,531.21	318.22	288,193	6,678	30.093
	12.3	258.1	5,520.67	328.79	297,490	6,893	30.079
	12.5	262.2	5,515.41	334.01	302,073	7,000	30.072
	12.7	266.3	5,510.14	339.24	306,661	7,107	30.066
	13.1	274.6	5,499.62	349.81	315,923	7,321	30.052
	13.5	282.8	5,489.11	360.25	325,050	7,534	30.038
	13.9	291.1	5,478.61	370.83	334,287	7,746	30.024
	14.3	299.3	5,468.12	381.27	343,380	7,958	30.010
	14.7	307.5	5,457.64	391.72	352,464	8,169	29.996
	15.1	315.8	5,447.17	402.29	361,640	8,380	29.982
	15.5	324.0	5,436.71	412.74	370,690	8,590	29.968
	15.9	332.2	5,426.26	423.18	379,715	8,799	29.954
	16.0	334.2	5,423.65	425.73	381,914	8,851	29.951
	16.3	340.4	5,415.82	433.63	388,731	9,008	29.940
	16.7	348.6	5,405.39	444.08	397,731	9,216	29.927
	17.1	356.7	5,394.97	454.39	406,588	9,423	29.913
	17.5	364.9	5,384.56	464.84	415,553	9,630	29.899
	17.9	373.1	5,374.16	475.29	424,502	9,837	29.885
	18.3	381.2	5,363.77	485.61	433,318	10,043	29.871
	18.7	389.4	5,353.39	496.05	442,224	10,248	29.857
	19.1	397.5	5,343.02	506.37	451,006	10,452	29.844
	19.5	405.6	5,332.66	516.69	459,772	10,656	29.830

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863	19.8	411.7	5,324.90	524.46	466,362	10,809	29.819
	20.0	415.8	5,319.73	529.68	470,786	10,910	29.812
	20.2	419.9	5,314.56	534.90	475,205	11,012	29.806
	20.6	428.0	5,304.22	545.22	483,925	11,214	29.792
	21.0	436.1	5,293.90	555.54	492,629	11,416	29.778
	21.4	444.2	5,283.59	565.86	501,316	11,617	29.764
	22.2	460.3	5,263.00	586.37	518,525	12,017	29.737
	23.0	476.5	5,242.44	607.01	535,784	12,416	29.709
	23.8	492.6	5,221.93	627.52	552,863	12,812	29.682
	24.6	508.6	5,201.46	647.90	569,763	13,205	29.654
	25.0	516.7	5,191.23	658.22	578,303	13,401	29.640
	25.4	524.7	5,181.02	668.41	586,713	13,596	29.627
	27.0	556.7	5,140.28	709.17	620,191	14,372	29.572
	27.4	564.6	5,130.12	719.24	628,416	14,564	29.558
	27.8	572.6	5,119.97	729.43	636,730	14,756	29.545
	28.2	580.6	5,109.82	739.62	645,028	14,948	29.531
	28.6	588.5	5,099.69	749.68	653,197	15,138	29.517
	29.4	604.4	5,079.46	769.94	669,610	15,518	29.490
	30.2	620.3	5,059.27	790.19	685,952	15,896	29.463
	31.8	651.9	5,019.01	830.45	718,240	16,644	29.408
	32.5	665.7	5,001.44	848.03	732,260	16,969	29.385
	33.3	681.4	4,981.41	868.03	748,145	17,338	29.357
	34.9	712.7	4,941.46	907.90	779,622	18,069	29.303
	36.5	744.0	4,901.67	947.77	810,858	18,791	29.249
	38.1	775.1	4,862.04	987.39	841,641	19,504	29.195
	40.0	811.9	4,815.19	1,034.27	877,745	20,341	29.131
	42.5	860.0	4,753.89	1,095.54	924,398	21,422	29.047
	45.0	907.8	4,692.98	1,156.43	970,171	22,484	28.964
	47.5	955.3	4,632.46	1,216.94	1,015,075	23,524	28.881
	50.0	1,002.5	4,572.34	1,277.07	1,059,121	24,545	28.798
	52.0	1,040.0	4,524.53	1,324.84	1,093,697	25,347	28.732
	75.0	1,457.5	3,992.72	1,856.69	1,454,181	33,701	27.985
876	6.7	143.6	5,843.98	182.93	172,807	3,946	30.735
	7.1	152.1	5,833.14	193.76	182,870	4,176	30.721
	7.5	160.6	5,822.32	204.59	192,915	4,405	30.707
	7.9	169.1	5,811.50	215.41	202,932	4,634	30.693
	8.3	177.6	5,800.70	226.24	212,941	4,862	30.679
	8.7	186.1	5,789.90	237.07	222,930	5,089	30.665
	9.1	194.6	5,779.12	247.90	232,902	5,316	30.651
	9.5	203.0	5,768.34	258.60	242,732	5,542	30.637

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
876	9.9	211.5	5,757.58	269.43	252,667	5,767	30.623
	10.3	219.9	5,746.83	280.13	262,462	5,992	30.609
	10.7	228.3	5,736.08	290.83	272,238	6,216	30.595
	11.1	236.8	5,725.35	301.66	282,118	6,440	30.581
	11.5	245.2	5,714.62	312.36	291,858	6,663	30.567
	11.9	253.6	5,703.91	323.06	301,581	6,885	30.553
	12.3	262.0	5,693.20	333.76	311,285	7,107	30.539
	12.7	270.4	5,682.51	344.46	320,971	7,328	30.525
	13.1	278.8	5,671.83	355.16	330,640	7,548	30.511
	13.5	287.2	5,661.15	365.86	340,290	7,768	30.497
	14.3	303.9	5,639.84	387.13	359,417	8,206	30.469
	15.1	320.6	5,618.56	408.41	378,482	8,641	30.442
	15.9	337.3	5,597.32	429.68	397,467	9,074	30.414
	16.7	353.9	5,576.12	450.83	416,271	9,504	30.386
	17.5	370.5	5,554.97	471.97	434,996	9,932	30.358
	18.3	387.1	5,533.85	493.12	453,661	10,357	30.331
	19.1	403.6	5,512.77	514.14	472,136	10,780	30.303
	19.8	418.1	5,494.37	532.61	488,317	11,148	30.279
	20.6	434.6	5,473.36	553.63	506,664	11,567	30.251
	21.4	451.0	5,452.40	574.52	524,823	11,983	30.224
	22.2	467.5	5,431.48	595.54	543,034	12,397	30.196
	23.0	483.8	5,410.60	616.31	560,948	12,808	30.169
	23.8	500.2	5,389.76	637.20	578,905	13,217	30.141
	24.6	516.5	5,368.96	657.96	596,677	13,623	30.114
	25.4	532.8	5,348.20	678.73	614,391	14,028	30.086
	27.0	565.3	5,306.81	720.13	649,494	14,829	30.031
	28.6	597.7	5,265.57	761.40	684,218	15,621	29.977
	29.4	613.8	5,245.01	781.91	701,369	16,014	29.949
	30.2	629.9	5,224.49	802.42	718,456	16,404	29.922
	31.8	662.1	5,183.57	843.44	752,438	17,178	29.868
	33.3	692.1	5,145.36	881.66	783,853	17,895	29.817
	34.9	723.9	5,104.76	922.17	816,890	18,651	29.762
	38.1	787.3	5,024.03	1,002.93	881,987	20,137	29.654
	40.0	824.7	4,976.40	1,050.57	919,900	21,002	29.590
	42.5	873.6	4,914.08	1,112.87	968,932	22,122	29.506
	45.0	922.2	4,852.15	1,174.78	1,017,045	23,221	29.423
	47.5	970.5	4,790.62	1,236.31	1,064,260	24,299	29.340
	50.0	1,018.5	4,729.48	1,297.45	1,110,578	25,356	29.256
883	74.0	1,476.4	4,242.91	1,880.76	1,551,526	35,142	28.721

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Technical data of tubes

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885	45.0	932.2	4,963.91	1,187.52	1,050,399	23,738	29.741
	74.0	1,480.1	4,266.04	1,885.48	1,563,056	35,322	28.792
890	9.9	214.9	5,947.41	273.76	265,093	5,956	31.118
	21.5	460.5	5,634.51	586.62	553,443	12,437	30.715
	73.0	1,470.9	4,347.46	1,873.76	1,575,874	35,411	29.000
895	6.7	146.8	6,104.26	187.01	184,467	4,121	31.407
	7.1	155.5	6,093.18	198.09	195,222	4,362	31.393
	7.5	164.2	6,082.12	209.17	205,957	4,601	31.378
	7.9	172.8	6,071.06	220.13	216,555	4,840	31.364
	8.3	181.5	6,060.02	231.21	227,252	5,078	31.350
	8.7	190.2	6,048.99	242.29	237,930	5,316	31.336
	9.1	198.8	6,037.97	253.25	248,470	5,553	31.322
	9.5	207.5	6,026.95	264.33	259,110	5,789	31.308
	9.9	216.1	6,015.95	275.29	269,612	6,025	31.294
	10.3	224.7	6,004.96	286.24	280,086	6,260	31.281
	10.7	233.4	5,993.97	297.32	290,668	6,494	31.267
	11.1	242.0	5,983.00	308.28	301,113	6,728	31.253
	11.5	250.6	5,972.04	319.24	311,540	6,961	31.239
	11.9	259.2	5,961.08	330.19	321,938	7,193	31.225
	12.3	267.8	5,950.14	341.15	332,327	7,425	31.211
	12.7	276.3	5,939.21	351.97	342,561	7,656	31.197
	13.1	284.9	5,928.29	362.93	352,913	7,887	31.183
	13.5	293.5	5,917.37	373.89	363,246	8,117	31.169
	14.3	310.6	5,895.58	395.67	383,719	8,574	31.141
	15.1	327.7	5,873.82	417.45	404,119	9,030	31.113
	15.9	344.7	5,852.11	439.11	424,328	9,482	31.085
	16.7	361.7	5,830.43	460.76	444,455	9,933	31.058
	17.5	378.7	5,808.80	482.42	464,518	10,381	31.030
	18.3	395.7	5,787.21	504.08	484,508	10,826	31.002
	19.1	412.6	5,765.65	525.61	504,300	11,269	30.975
	19.8	427.4	5,746.83	544.46	521,570	11,654	30.950
	20.6	444.2	5,725.35	565.86	541,103	12,092	30.923
	21.4	461.1	5,703.91	587.39	560,689	12,528	30.895
	22.2	477.9	5,682.51	608.79	580,080	12,961	30.868
	23.0	494.6	5,661.15	630.06	599,276	13,392	30.840
	23.8	511.4	5,639.84	651.46	618,525	13,820	30.813
	24.6	528.1	5,618.56	672.74	637,590	14,246	30.785
	25.4	544.7	5,597.32	693.89	656,463	14,670	30.758
	27.0	578.0	5,554.97	736.31	694,113	15,510	30.703



Technical data of tubes

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895	28.6	611.1	5,512.77	778.47	731,243	16,340	30.648
	29.4	627.6	5,491.74	799.49	749,650	16,752	30.621
	30.2	644.1	5,470.74	820.51	767,988	17,161	30.593
	31.8	677.0	5,428.87	862.42	804,342	17,973	30.539
	33.3	707.7	5,389.76	901.53	838,013	18,725	30.488
	34.9	740.3	5,348.20	943.06	873,498	19,519	30.434
	36.5	772.8	5,306.81	984.46	908,601	20,303	30.379
	38.1	805.2	5,265.57	1,025.73	943,324	21,079	30.325
	40.0	843.4	5,216.81	1,074.39	983,906	21,987	30.261
	42.5	893.5	5,152.99	1,138.22	1,036,581	23,164	30.177
	45.0	943.3	5,089.57	1,201.66	1,088,291	24,319	30.094
	47.5	992.8	5,026.54	1,264.71	1,139,049	25,453	30.010
	50.0	1,042.0	4,963.91	1,327.39	1,188,885	26,566	29.927
900	50.0	1,048.1	5,026.54	1,335.16	1,209,989	26,889	30.103
	70.0	1,432.9	4,536.46	1,825.35	1,583,035	35,177	29.449
	73.0	1,488.9	4,465.11	1,896.69	1,634,136	36,313	29.352
902	5.6	123.8	6,232.32	157.71	158,413	3,512	31.693
	5.9	130.4	6,223.93	166.11	166,739	3,697	31.682
	6.4	141.4	6,209.95	180.13	180,612	4,003	31.665
	6.7	147.9	6,201.58	188.41	188,789	4,187	31.654
	7.1	156.7	6,190.42	199.62	199,844	4,431	31.640
	7.5	165.5	6,179.26	210.83	210,879	4,674	31.626
	7.9	174.2	6,168.12	221.91	221,765	4,917	31.612
	8.3	182.9	6,156.99	232.99	232,631	5,159	31.598
	8.7	191.7	6,145.87	244.20	243,608	5,401	31.584
	9.1	200.4	6,134.76	255.29	254,445	5,641	31.570
	9.5	209.1	6,123.66	266.37	265,253	5,881	31.556
	9.9	217.8	6,112.57	277.45	276,042	6,121	31.542
	10.3	226.5	6,101.49	288.54	286,821	6,360	31.528
	10.7	235.2	6,090.41	299.62	297,571	6,598	31.514
	11.1	243.9	6,079.35	310.70	308,302	6,835	31.500
	11.5	252.6	6,068.30	321.78	319,014	7,072	31.486
	11.9	261.2	6,057.26	332.74	329,587	7,308	31.472
	12.3	269.9	6,046.23	343.82	340,260	7,544	31.458
	12.7	278.5	6,035.21	354.78	350,796	7,779	31.444
	13.1	287.2	6,024.20	365.86	361,431	8,013	31.430
	13.5	295.8	6,013.20	376.82	371,928	8,247	31.416
	14.3	313.1	5,991.23	398.85	392,975	8,712	31.389
	15.1	330.3	5,969.30	420.76	413,828	9,175	31.361

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902	15.9	347.5	5,947.41	442.68	434,615	9,635	31.333
	16.7	364.6	5,925.56	464.46	455,191	10,093	31.305
	17.5	381.7	5,903.75	486.24	475,693	10,548	31.277
	18.3	398.8	5,881.98	508.03	496,130	11,001	31.250
	19.1	415.9	5,860.25	529.81	516,484	11,451	31.222
	19.8	430.8	5,841.27	548.79	534,157	11,843	31.198
	20.6	447.8	5,819.61	570.45	554,257	12,289	31.170
	21.4	464.8	5,798.00	592.10	574,274	12,732	31.143
	22.2	481.7	5,776.42	613.63	594,102	13,172	31.115
	23.0	498.6	5,754.89	635.16	613,858	13,611	31.087
	23.8	515.5	5,733.40	656.69	633,543	14,046	31.060
	24.6	532.3	5,711.94	678.09	653,031	14,480	31.032
	25.4	549.1	5,690.53	699.49	672,448	14,910	31.005
	27.0	582.6	5,647.82	742.17	710,956	15,765	30.950
	28.6	616.0	5,605.28	784.71	749,050	16,609	30.895
	29.4	632.7	5,584.07	805.99	768,003	17,028	30.868
	30.2	649.3	5,562.90	827.13	786,753	17,445	30.841
	31.8	682.5	5,520.67	869.43	824,067	18,270	30.786
	33.3	713.4	5,481.24	908.79	858,521	19,036	30.735
	34.9	746.3	5,439.32	950.70	894,942	19,844	30.681
907	38.1	811.7	5,355.98	1,034.01	966,508	21,431	30.573
	40.0	850.3	5,306.81	1,083.18	1,008,229	22,356	30.509
907	50.0	1,056.8	5,114.89	1,346.24	1,240,138	27,345	30.351
910	13.9	307.2	6,112.57	391.34	392,900	8,635	31.685
914	5.9	132.1	6,392.86	168.28	173,472	3,797	32.106
	6.3	141.0	6,381.53	179.62	184,999	4,049	32.092
	6.4	143.3	6,378.70	182.55	187,976	4,112	32.089
	6.5	145.5	6,375.86	185.35	190,818	4,175	32.085
	6.7	149.9	6,370.20	190.96	196,507	4,300	32.078
	7.1	158.8	6,358.89	202.29	207,984	4,551	32.064
	7.5	167.7	6,347.59	213.63	219,451	4,801	32.050
	7.6	169.9	6,344.77	216.43	222,279	4,863	32.047
	7.9	176.5	6,336.30	224.84	230,764	5,050	32.036
	8.0	178.8	6,333.48	227.77	233,721	5,113	32.033
	8.3	185.4	6,325.02	236.18	242,191	5,299	32.022
	8.7	194.2	6,313.74	247.39	253,465	5,547	32.008
914	8.8	196.5	6,310.93	250.32	256,410	5,609	32.005
	9.1	203.1	6,302.48	258.73	264,851	5,795	31.994

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914	9.5	211.9	6,291.23	269.94	276,085	6,041	31.980
	9.8	218.5	6,282.80	278.34	284,489	6,226	31.970
	9.9	220.7	6,279.99	281.15	287,298	6,288	31.966
	10.0	222.9	6,277.18	283.95	290,096	6,349	31.963
	10.3	229.6	6,268.76	292.48	298,615	6,533	31.952
	10.7	238.4	6,257.53	303.69	309,789	6,778	31.938
	10.8	240.6	6,254.73	306.50	312,587	6,839	31.935
	10.9	242.8	6,251.93	309.30	315,373	6,900	31.931
	11.0	245.0	6,249.13	312.10	318,159	6,961	31.928
	11.1	247.2	6,246.32	314.90	320,943	7,022	31.924
	11.5	256.0	6,235.12	326.11	332,077	7,265	31.910
	11.9	264.7	6,223.93	337.20	343,070	7,508	31.896
	12.0	266.9	6,221.13	340.00	345,843	7,569	31.893
	12.1	269.1	6,218.34	342.80	348,615	7,629	31.889
	12.3	273.5	6,212.75	348.41	354,165	7,750	31.882
	12.5	277.9	6,207.16	354.01	359,700	7,871	31.875
	12.7	282.3	6,201.58	359.62	365,240	7,992	31.868
	13.0	288.9	6,193.20	368.03	373,537	8,172	31.858
	13.1	291.1	6,190.42	370.83	376,296	8,233	31.854
	13.5	299.8	6,179.26	381.91	387,201	8,473	31.841
	13.7	304.2	6,173.69	387.52	392,717	8,593	31.834
	13.9	308.6	6,168.12	393.12	398,217	8,712	31.827
	14.0	310.7	6,165.34	395.80	400,844	8,772	31.823
	14.2	315.1	6,159.77	401.40	406,338	8,892	31.816
	14.3	317.3	6,156.99	404.20	409,083	8,951	31.813
	14.7	326.0	6,145.87	415.29	419,940	9,189	31.799
	15.0	332.6	6,137.54	423.69	428,153	9,368	31.788
	15.1	334.7	6,134.76	426.37	430,767	9,427	31.785
	15.3	339.1	6,129.21	431.97	436,234	9,546	31.778
	15.4	341.3	6,126.43	434.78	438,975	9,605	31.774
	15.5	343.5	6,123.66	437.58	441,706	9,664	31.771
	15.6	345.6	6,120.88	440.25	444,304	9,723	31.768
	15.7	347.8	6,118.11	443.06	447,042	9,782	31.764
	15.9	352.2	6,112.57	448.66	452,494	9,900	31.757
	16.0	354.3	6,109.80	451.34	455,097	9,959	31.754
	16.1	356.5	6,107.03	454.14	457,821	10,018	31.750
	16.3	360.9	6,101.49	459.75	463,273	10,136	31.743
	16.7	369.6	6,090.41	470.83	474,024	10,371	31.729
	17.0	376.1	6,082.12	479.11	482,043	10,547	31.719
	17.1	378.2	6,079.35	481.78	484,624	10,605	31.715
	17.3	382.6	6,073.83	487.39	490,053	10,722	31.709

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914	17.5	386.9	6,068.30	492.87	495,346	10,839	31.702
	17.7	391.3	6,062.78	498.47	500,755	10,956	31.695
	17.8	393.4	6,060.02	501.15	503,337	11,014	31.691
	17.9	395.6	6,057.26	503.95	506,039	11,072	31.688
	18.0	397.7	6,054.50	506.62	508,608	11,131	31.684
	18.2	402.1	6,048.99	512.23	514,016	11,247	31.677
	18.3	404.2	6,046.23	514.90	516,582	11,305	31.674
	18.7	412.9	6,035.21	525.99	527,247	11,537	31.660
	19.0	419.4	6,026.95	534.27	535,196	11,710	31.650
	19.1	421.5	6,024.20	536.94	537,753	11,768	31.646
	19.5	430.2	6,013.20	548.03	548,380	11,998	31.632
	19.8	436.6	6,004.96	556.18	556,170	12,171	31.622
	19.9	438.8	6,002.21	558.98	558,848	12,228	31.619
	20.0	441.0	5,999.46	561.78	561,524	12,286	31.615
	20.2	445.3	5,993.97	567.26	566,754	12,400	31.608
	20.6	453.9	5,983.00	578.22	577,199	12,629	31.594
	21.0	462.5	5,972.04	589.17	587,616	12,858	31.581
	21.4	471.1	5,961.08	600.13	598,024	13,085	31.567
	21.8	479.7	5,950.14	611.08	608,404	13,312	31.553
	22.2	488.3	5,939.21	622.04	618,774	13,538	31.539
	22.6	496.8	5,928.29	632.87	628,997	13,764	31.525
	22.9	503.3	5,920.10	641.15	636,809	13,933	31.515
	23.0	505.4	5,917.37	643.82	639,321	13,989	31.512
	23.8	522.5	5,895.58	665.61	659,805	14,438	31.484
	24.6	539.6	5,873.82	687.39	680,205	14,883	31.457
	25.0	548.1	5,862.96	698.22	690,318	15,105	31.443
	25.4	556.6	5,852.11	709.04	700,403	15,327	31.429
	25.6	560.9	5,846.69	714.52	705,508	15,437	31.422
	25.8	565.1	5,841.27	719.87	710,480	15,548	31.415
	26.2	573.6	5,830.43	730.70	720,539	15,768	31.402
	27.0	590.6	5,808.80	752.36	740,602	16,206	31.374
	27.2	594.9	5,803.40	757.83	745,661	16,315	31.367
	28.6	624.5	5,765.65	795.54	780,376	17,076	31.319
	29.4	641.4	5,744.14	817.07	800,097	17,507	31.292
	30.0	654.0	5,728.03	833.12	814,746	17,829	31.272
	30.2	658.2	5,722.67	838.47	819,620	17,936	31.265
	30.6	666.7	5,711.94	849.30	829,481	18,149	31.251
	31.0	675.1	5,701.23	860.00	839,199	18,362	31.238
	31.8	691.9	5,679.84	881.40	858,581	18,786	31.210
	34.3	744.1	5,613.25	947.90	918,336	20,096	31.125
	34.9	756.6	5,597.32	963.82	932,538	20,407	31.105

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
914	35.5	769.1	5,581.42	979.75	946,711	20,716	31.085
	36.5	789.9	5,554.97	1,006.24	970,190	21,229	31.051
	38.1	823.0	5,512.77	1,048.41	1,007,329	22,042	30.997
	39.5	851.9	5,475.99	1,085.22	1,039,519	22,746	30.949
	40.0	862.2	5,462.88	1,098.34	1,050,941	22,996	30.932
	41.0	882.7	5,436.71	1,124.46	1,073,592	23,492	30.899
	41.9	901.2	5,413.21	1,148.03	1,093,949	23,936	30.868
	42.5	913.4	5,397.57	1,163.57	1,107,309	24,231	30.848
	45.0	964.4	5,332.66	1,228.54	1,162,792	25,444	30.764
	47.5	1,015.1	5,268.14	1,293.12	1,217,276	26,635	30.681
	50.0	1,065.4	5,204.01	1,357.20	1,270,672	27,804	30.598
	52.5	1,115.4	5,140.28	1,420.89	1,323,095	28,952	30.515
	55.0	1,165.2	5,076.94	1,484.33	1,374,686	30,079	30.432
	57.5	1,214.6	5,013.99	1,547.26	1,425,217	31,185	30.350
	59.0	1,244.1	4,976.40	1,584.84	1,455,093	31,839	30.300
	60.0	1,263.7	4,951.43	1,609.81	1,474,819	32,271	30.267
	62.5	1,312.5	4,889.26	1,671.97	1,523,496	33,336	30.186
	65.0	1,361.0	4,827.49	1,733.76	1,571,276	34,381	30.104
	67.5	1,409.2	4,766.11	1,795.16	1,618,154	35,406	30.023
	70.0	1,457.0	4,705.13	1,856.05	1,664,032	36,412	29.942
	80.0	1,645.4	4,465.11	2,096.05	1,839,169	40,245	29.621
917	7.1	159.3	6,401.37	202.93	210,025	4,581	32.170
	7.5	168.2	6,390.03	214.27	221,568	4,833	32.156
	7.9	177.1	6,378.70	225.61	233,091	5,084	32.142
	8.3	186.0	6,367.38	236.94	244,583	5,335	32.128
	8.7	194.9	6,356.07	248.28	256,065	5,584	32.114
	9.1	203.8	6,344.77	259.62	267,527	5,833	32.100
	9.5	212.6	6,333.48	270.83	278,835	6,082	32.086
	9.9	221.5	6,322.20	282.17	290,257	6,330	32.072
	10.3	230.3	6,310.93	293.38	301,525	6,577	32.058
	10.7	239.2	6,299.67	304.71	312,897	6,823	32.044
	11.1	248.0	6,288.42	315.92	324,125	7,069	32.030
	11.5	256.8	6,277.18	327.13	335,334	7,314	32.016
	11.9	265.6	6,265.95	338.34	346,523	7,558	32.002
	12.3	274.4	6,254.73	349.55	357,692	7,802	31.988
	12.7	283.2	6,243.52	360.76	368,841	8,045	31.974
	13.1	292.0	6,232.32	371.97	379,971	8,288	31.961
	13.5	300.8	6,221.13	383.18	391,080	8,530	31.947
	13.9	309.6	6,209.95	394.39	402,171	8,771	31.933
	14.3	318.4	6,198.79	405.61	413,252	9,011	31.919

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Technical data of tubes

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917	14.7	327.1	6,187.63	416.69	424,170	9,251	31.905
	15.1	335.9	6,176.48	427.90	435,202	9,491	31.891
	15.5	344.6	6,165.34	438.98	446,082	9,729	31.877
	15.9	353.3	6,154.21	450.06	456,943	9,967	31.863
	16.3	362.1	6,143.09	461.27	467,916	10,204	31.849
	16.7	370.8	6,131.98	472.36	478,748	10,441	31.835
	17.5	388.2	6,109.80	494.52	500,335	10,913	31.808
	18.3	405.6	6,087.65	516.69	521,855	11,381	31.780
	19.1	423.0	6,065.54	538.85	543,288	11,848	31.752
	19.8	438.1	6,046.23	558.09	561,829	12,254	31.728
	20.6	455.4	6,024.20	580.13	583,000	12,715	31.700
	22.2	489.9	5,980.26	624.08	624,985	13,631	31.645
	23.0	507.1	5,958.35	645.99	645,800	14,085	31.618
	23.8	524.3	5,936.48	667.90	666,541	14,536	31.590
	24.6	541.4	5,914.65	689.68	687,079	14,985	31.563
	25.4	558.5	5,892.86	711.46	707,543	15,432	31.535
	27.0	592.6	5,849.40	754.90	748,133	16,318	31.480
	28.6	626.6	5,806.10	798.22	788,315	17,193	31.425
	29.4	643.6	5,784.51	819.87	808,287	17,628	31.398
	30.2	660.5	5,762.96	841.40	828,070	18,060	31.371
	31.8	694.2	5,719.98	884.33	867,296	18,916	31.316
	33.0	719.4	5,687.86	916.43	896,435	19,552	31.275
	34.9	759.2	5,637.17	967.13	942,128	20,548	31.211
	36.5	792.6	5,594.67	1,009.68	980,163	21,377	31.157
	38.1	825.8	5,552.33	1,051.97	1,017,672	22,196	31.102
	40.0	865.1	5,502.25	1,102.04	1,061,718	23,157	31.038
	42.5	916.6	5,436.71	1,167.64	1,118,828	24,401	30.954
	43.0	926.8	5,423.65	1,180.64	1,130,057	24,648	30.937
	45.0	967.7	5,371.56	1,232.74	1,174,815	25,624	30.870
	47.5	1,018.6	5,306.81	1,297.58	1,229,922	26,824	30.787
	50.0	1,069.1	5,242.44	1,361.91	1,283,922	28,002	30.704
	55.0	1,169.2	5,114.89	1,489.43	1,389,022	30,295	30.538
	60.0	1,268.1	4,988.92	1,615.41	1,490,315	32,504	30.373
920	6.7	150.9	6,455.37	192.23	200,439	4,358	32.290
	7.1	159.8	6,443.98	203.57	212,078	4,612	32.276
	7.5	168.8	6,432.60	215.03	223,823	4,865	32.262
	7.9	177.7	6,421.23	226.37	235,422	5,118	32.248
	8.3	186.6	6,409.88	237.71	247,000	5,370	32.234
	8.7	195.5	6,398.53	249.04	258,548	5,621	32.220
	9.1	204.4	6,387.19	260.38	270,086	5,872	32.206



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
920	9.5	213.3	6,375.86	271.72	281,604	6,122	32.192
	9.9	222.2	6,364.55	283.06	293,102	6,372	32.178
	10.0	224.4	6,361.72	285.86	295,937	6,434	32.175
	10.3	231.1	6,353.24	294.39	304,569	6,620	32.164
	10.7	239.9	6,341.94	305.61	315,902	6,869	32.150
	11.1	248.8	6,330.66	316.94	327,329	7,116	32.136
	11.5	257.7	6,319.38	328.28	338,746	7,363	32.122
	11.9	266.5	6,308.11	339.49	350,009	7,609	32.108
	12.0	268.7	6,305.30	342.29	352,819	7,670	32.105
	12.3	275.3	6,296.86	350.70	361,252	7,854	32.094
	12.7	284.2	6,285.61	362.04	372,609	8,099	32.081
	13.1	293.0	6,274.37	373.25	383,813	8,343	32.067
	13.5	301.8	6,263.14	384.46	394,996	8,587	32.053
	13.9	310.6	6,251.93	395.67	406,160	8,830	32.039
	14.3	319.4	6,240.72	406.88	417,305	9,072	32.025
	14.5	323.8	6,235.12	412.48	422,864	9,193	32.018
	14.7	328.2	6,229.52	418.09	428,430	9,313	32.011
	15.1	337.0	6,218.34	429.30	439,535	9,554	31.997
	15.5	345.8	6,207.16	440.51	450,620	9,795	31.983
	15.9	354.5	6,195.99	451.59	461,553	10,034	31.969
	16.3	363.3	6,184.84	462.80	472,599	10,273	31.955
	16.7	372.0	6,173.69	473.89	483,504	10,511	31.941
	17.1	380.8	6,162.56	485.10	494,511	10,749	31.928
	17.5	389.5	6,151.43	496.18	505,367	10,986	31.914
	18.3	407.0	6,129.21	518.47	527,153	11,458	31.886
	19.1	424.4	6,107.03	540.64	548,740	11,928	31.858
	19.5	433.1	6,095.95	551.72	559,500	12,162	31.844
	19.8	439.6	6,087.65	560.00	567,526	12,337	31.834
	20.6	456.9	6,065.54	582.04	588,839	12,801	31.806
	21.4	474.3	6,043.48	604.20	610,197	13,264	31.779
	21.8	482.9	6,032.46	615.16	620,726	13,494	31.765
	22.2	491.5	6,021.45	626.11	631,227	13,723	31.751
	22.6	500.2	6,010.45	637.20	641,850	13,952	31.737
	23.0	508.8	5,999.46	648.15	652,313	14,181	31.724
	23.8	526.0	5,977.52	670.06	673,193	14,635	31.696
	24.6	543.2	5,955.61	691.97	694,000	15,087	31.669
	25.4	560.4	5,933.75	713.89	714,742	15,537	31.641
	25.8	569.0	5,922.83	724.84	725,075	15,761	31.627
	26.2	577.5	5,911.92	735.67	735,270	15,984	31.614
	26.6	586.1	5,901.02	746.62	745,566	16,207	31.600
	27.0	594.6	5,890.14	757.45	755,725	16,429	31.586

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920	28.6	628.7	5,846.69	800.89	796,297	17,311	31.531
	30.2	662.7	5,803.40	844.20	836,450	18,184	31.477
	31.8	696.6	5,760.27	887.39	876,198	19,047	31.422
	33.3	728.2	5,719.98	927.64	912,967	19,847	31.371
	34.0	742.9	5,701.23	946.37	929,988	20,217	31.347
	34.9	761.8	5,677.17	970.45	951,793	20,691	31.317
	36.5	795.3	5,634.51	1,013.12	990,204	21,526	31.263
	38.1	828.7	5,592.02	1,055.67	1,028,222	22,351	31.208
	40.0	868.1	5,541.76	1,105.86	1,072,684	23,319	31.144
	42.5	919.7	5,475.99	1,171.59	1,130,310	24,573	31.060
	45.0	971.1	5,410.60	1,237.07	1,187,046	25,804	30.976
	47.5	1,022.1	5,345.61	1,302.04	1,242,655	27,013	30.893
	50.0	1,072.8	5,281.01	1,366.62	1,297,264	28,201	30.809
	52.5	1,123.2	5,216.81	1,430.83	1,350,905	29,367	30.726
	55.0	1,173.3	5,152.99	1,494.65	1,403,570	30,512	30.644
	57.5	1,223.1	5,089.57	1,558.09	1,455,280	31,635	30.561
	60.0	1,272.6	5,026.54	1,621.15	1,506,048	32,738	30.479
927	7.9	179.1	6,521.04	228.15	240,929	5,197	32.496
	8.3	188.1	6,509.60	239.62	252,823	5,453	32.482
	8.7	197.0	6,498.16	250.96	264,559	5,709	32.468
	9.1	206.0	6,486.73	262.42	276,401	5,963	32.454
	9.5	215.0	6,475.32	273.89	288,234	6,217	32.440
	9.9	223.9	6,463.91	285.22	299,898	6,471	32.426
	10.3	232.9	6,452.52	296.69	311,690	6,723	32.412
	10.7	241.8	6,441.13	308.03	323,324	6,975	32.398
	11.1	250.7	6,429.76	319.36	334,927	7,227	32.384
	11.5	259.6	6,418.39	330.70	346,521	7,477	32.370
	11.9	268.6	6,407.04	342.17	358,231	7,727	32.356
	12.3	277.5	6,395.69	353.50	369,773	7,977	32.342
	12.7	286.4	6,384.36	364.84	381,306	8,226	32.328
	13.1	295.3	6,373.03	376.18	392,819	8,474	32.314
	13.5	304.1	6,361.72	387.39	404,176	8,721	32.300
	14.3	321.9	6,339.12	410.06	427,091	9,214	32.272
	15.1	339.6	6,316.56	432.61	449,801	9,704	32.244
	15.9	357.3	6,294.04	455.16	472,431	10,192	32.217
	16.7	374.9	6,271.56	477.58	494,848	10,676	32.189
	17.1	383.7	6,260.34	488.79	506,026	10,918	32.175
	17.5	392.5	6,249.13	500.00	517,185	11,159	32.161
	17.9	401.3	6,237.92	511.21	528,325	11,399	32.147
	18.3	410.1	6,226.73	522.42	539,445	11,639	32.133

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927	19.1	427.7	6,204.37	544.84	561,626	12,116	32.106
	19.5	436.4	6,193.20	555.92	572,553	12,353	32.092
	19.6	438.6	6,190.42	558.73	575,324	12,413	32.088
	19.8	443.0	6,184.84	564.33	580,839	12,531	32.081
	20.6	460.5	6,162.56	586.62	602,741	13,004	32.054
	21.4	477.9	6,140.31	608.79	624,443	13,473	32.026
	22.2	495.4	6,118.11	631.08	646,191	13,941	31.999
	23.0	512.8	6,095.95	653.25	667,740	14,405	31.971
	23.4	521.5	6,084.88	664.33	678,481	14,637	31.957
	23.8	530.1	6,073.83	675.29	689,080	14,868	31.944
	24.2	538.8	6,062.78	686.37	699,783	15,098	31.930
	24.6	547.5	6,051.75	697.45	710,467	15,327	31.916
	25.0	556.1	6,040.72	708.41	721,010	15,556	31.902
	25.4	564.8	6,029.70	719.49	731,656	15,785	31.889
	25.8	573.4	6,018.70	730.45	742,162	16,012	31.875
	26.2	582.0	6,007.70	741.40	752,639	16,239	31.861
	27.0	599.3	5,985.74	763.44	773,679	16,691	31.834
	28.6	633.7	5,941.94	807.26	815,273	17,588	31.779
	29.4	650.8	5,920.10	829.04	835,828	18,033	31.751
	30.2	667.9	5,898.30	850.83	856,320	18,476	31.724
	30.4	672.2	5,892.86	856.31	861,465	18,586	31.717
	30.7	678.6	5,884.70	864.46	869,102	18,751	31.707
	31.8	702.1	5,854.82	894.39	897,067	19,353	31.670
	33.3	733.9	5,814.20	934.90	934,676	20,167	31.618
	34.1	750.9	5,792.60	956.56	954,687	20,597	31.591
	34.9	767.8	5,771.04	978.09	974,496	21,025	31.564
	36.5	801.6	5,728.03	1,021.15	1,013,903	21,874	31.510
	38.1	835.2	5,685.18	1,063.95	1,052,772	22,714	31.456
	40.0	875.0	5,634.51	1,114.65	1,098,444	23,699	31.392
	42.5	927.1	5,568.19	1,181.02	1,157,616	24,974	31.307
	45.0	978.8	5,502.25	1,246.88	1,215,629	26,228	31.223
	47.5	1,030.3	5,436.71	1,312.48	1,272,739	27,459	31.140
	50.0	1,081.4	5,371.56	1,377.58	1,328,726	28,667	31.056
	52.5	1,132.3	5,306.81	1,442.42	1,383,833	29,855	30.973
	55.0	1,182.8	5,242.44	1,506.75	1,437,833	31,020	30.891
	57.5	1,233.0	5,178.47	1,570.70	1,490,862	32,165	30.808
	60.0	1,282.9	5,114.89	1,634.27	1,542,933	33,289	30.726
	116.3	2,325.2	3,787.12	2,962.04	2,483,523	53,582	28.956
933	10.3	234.4	6,538.23	298.60	317,815	6,812	32.624
	11.1	252.4	6,515.32	321.53	341,635	7,322	32.596

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
933	11.9	270.3	6,492.45	344.33	365,234	7,830	32.568
	12.7	288.2	6,469.62	367.13	388,751	8,335	32.540
	14.3	324.0	6,424.08	412.74	435,551	9,336	32.484
	15.9	359.6	6,378.70	458.09	481,753	10,327	32.429
	17.5	395.1	6,333.48	503.31	527,498	11,308	32.373
	18.3	412.8	6,310.93	525.86	550,188	11,794	32.345
	19.1	430.5	6,288.42	548.41	572,799	12,278	32.318
	20.6	463.5	6,246.32	590.45	614,731	13,178	32.266
	22.2	498.7	6,201.58	635.29	659,153	14,128	32.211
	23.8	533.7	6,156.99	679.87	702,995	15,068	32.156
	25.4	568.5	6,112.57	724.20	746,273	15,998	32.101
	28.6	637.9	6,024.20	812.61	831,663	17,828	31.991
	30.2	672.4	5,980.26	856.56	873,648	18,727	31.936
	31.8	706.8	5,936.48	900.38	915,206	19,617	31.882
934	35.2	780.3	5,857.53	994.01	1,005,293	21,525	31.801
940	6.7	154.2	6,743.33	196.43	213,886	4,551	32.997
	7.1	163.4	6,731.69	208.15	226,455	4,817	32.983
	7.5	172.5	6,720.06	219.75	238,872	5,082	32.969
	7.9	181.6	6,708.44	231.34	251,256	5,346	32.955
	8.3	190.7	6,696.83	242.93	263,620	5,609	32.941
	8.7	199.8	6,685.23	254.52	275,962	5,872	32.927
	9.1	208.9	6,673.64	266.11	288,283	6,134	32.913
	9.5	218.0	6,662.06	277.71	300,594	6,396	32.899
	9.9	227.1	6,650.50	289.30	312,872	6,656	32.885
	10.3	236.2	6,638.94	300.89	325,130	6,916	32.871
	10.7	245.2	6,627.39	312.36	337,237	7,176	32.857
	11.1	254.3	6,615.85	323.95	349,452	7,435	32.843
	11.5	263.3	6,604.32	335.41	361,507	7,693	32.829
	11.9	272.4	6,592.80	347.01	373,691	7,950	32.815
	12.3	281.4	6,581.29	358.47	385,704	8,207	32.802
	12.7	290.4	6,569.80	369.94	397,707	8,463	32.788
	13.1	299.5	6,558.31	381.53	409,818	8,718	32.774
	13.5	308.5	6,546.83	392.99	421,769	8,973	32.760
	14.3	326.5	6,523.90	415.92	445,619	9,480	32.732
	15.1	344.4	6,501.02	438.73	469,259	9,985	32.704
	15.9	362.4	6,478.17	461.66	492,945	10,487	32.676
	16.7	380.3	6,455.37	484.46	516,411	10,986	32.648
	17.5	398.1	6,432.60	507.13	539,658	11,483	32.621
	18.3	416.0	6,409.88	529.94	562,972	11,977	32.593

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Technical data of tubes

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940	19.1	433.8	6,387.19	552.61	586,058	12,469	32.565
	19.8	449.3	6,367.38	572.36	606,101	12,897	32.541
	20.6	467.1	6,344.77	595.03	629,037	13,383	32.513
	21.4	484.8	6,322.20	617.58	651,766	13,867	32.486
	22.2	502.5	6,299.67	640.13	674,417	14,349	32.458
	23.0	520.1	6,277.18	662.55	696,852	14,828	32.431
	23.8	537.8	6,254.73	685.10	719,345	15,304	32.403
	24.6	555.4	6,232.32	707.52	741,624	15,778	32.375
	25.4	572.9	6,209.95	729.81	763,690	16,249	32.348
	25.8	581.7	6,198.79	741.02	774,762	16,484	32.334
	26.2	590.4	6,187.63	752.10	785,678	16,718	32.320
	26.6	599.2	6,176.48	763.31	796,712	16,951	32.307
	27.0	607.9	6,165.34	774.39	807,590	17,184	32.293
	28.6	642.8	6,120.88	818.85	851,059	18,109	32.238
	29.4	660.2	6,098.72	841.02	872,618	18,567	32.211
	30.2	677.6	6,076.59	863.18	894,091	19,023	32.184
	31.8	712.3	6,032.46	907.39	936,697	19,928	32.129
	33.3	744.6	5,991.23	948.54	976,064	20,767	32.078
	34.9	779.0	5,947.41	992.36	1,017,695	21,653	32.023
	36.5	813.3	5,903.75	1,036.05	1,058,901	22,529	31.969
	38.1	847.4	5,860.25	1,079.49	1,099,562	23,396	31.915
	40.0	887.8	5,808.80	1,130.96	1,147,359	24,412	31.851
	42.5	940.7	5,741.45	1,198.34	1,209,294	25,729	31.766
	45.0	993.3	5,674.50	1,265.35	1,270,174	27,023	31.682
	47.5	1,045.5	5,607.93	1,331.85	1,329,873	28,295	31.599
	50.0	1,097.5	5,541.76	1,398.09	1,388,653	29,544	31.515
	52.5	1,149.1	5,475.99	1,463.82	1,446,277	30,771	31.432
	55.0	1,200.4	5,410.60	1,529.17	1,502,887	31,976	31.349
	57.5	1,251.4	5,345.61	1,594.14	1,558,496	33,160	31.267
	60.0	1,302.2	5,281.01	1,658.85	1,613,232	34,322	31.184
945	7.1	164.2	6,804.59	209.17	230,010	4,869	33.160
	7.5	173.4	6,792.90	220.89	242,693	5,136	33.146
	7.9	182.6	6,781.22	232.61	255,353	5,403	33.132
	8.3	191.7	6,769.55	244.20	267,849	5,670	33.118
	8.7	200.9	6,757.89	255.92	280,467	5,936	33.104
	9.1	210.0	6,746.24	267.52	292,932	6,201	33.090
	9.5	219.2	6,734.60	279.24	305,506	6,465	33.076
	9.9	228.3	6,722.96	290.83	317,917	6,728	33.062
	10.3	237.4	6,711.34	302.42	330,307	6,991	33.048
	10.7	246.5	6,699.73	314.01	342,676	7,254	33.034

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
945	11.1	255.7	6,688.13	325.73	355,165	7,515	33.020
	11.5	264.8	6,676.54	337.32	367,491	7,776	33.006
	11.9	273.8	6,664.96	348.79	379,666	8,036	32.992
	12.3	282.9	6,653.39	360.38	391,950	8,296	32.978
	12.7	292.0	6,641.83	371.97	404,213	8,555	32.964
	13.1	301.1	6,630.27	383.57	416,466	8,813	32.950
	13.5	310.1	6,618.73	395.03	428,546	9,071	32.936
	14.3	328.2	6,595.68	418.09	452,795	9,584	32.909
	15.1	346.3	6,572.67	441.15	476,962	10,094	32.881
	15.9	364.3	6,549.70	464.08	500,905	10,602	32.853
	16.7	382.3	6,526.77	487.01	524,765	11,107	32.825
	17.5	400.3	6,503.88	509.94	548,544	11,609	32.797
	18.3	418.2	6,481.03	532.74	572,101	12,109	32.770
	19.1	436.1	6,458.22	555.54	595,577	12,606	32.742
	19.8	451.8	6,438.29	575.54	616,106	13,039	32.718
	20.6	469.6	6,415.55	598.22	639,303	13,531	32.690
	21.4	487.4	6,392.86	620.89	662,408	14,020	32.662
	22.2	505.2	6,370.20	643.57	685,445	14,507	32.635
	23.0	523.0	6,347.59	666.24	708,391	14,992	32.607
	23.8	540.7	6,325.02	688.79	731,130	15,473	32.580
	24.6	558.4	6,302.48	711.34	753,790	15,953	32.552
	25.4	576.1	6,279.99	733.89	776,372	16,429	32.525
	25.8	584.9	6,268.76	745.10	787,565	16,667	32.511
	26.2	593.7	6,257.53	756.31	798,739	16,903	32.497
	26.6	602.5	6,246.32	767.52	809,893	17,140	32.483
	27.0	611.3	6,235.12	778.73	821,028	17,375	32.470
	28.6	646.4	6,190.42	823.44	865,237	18,311	32.415
	29.4	663.9	6,168.12	845.73	887,158	18,775	32.388
	30.2	681.3	6,145.87	867.90	908,877	19,236	32.360
	31.8	716.2	6,101.49	912.36	952,214	20,152	32.306
	33.3	748.7	6,060.02	953.76	992,275	21,001	32.254
	34.9	783.3	6,015.95	997.83	1,034,625	21,897	32.200
	35.5	796.3	5,999.46	1,014.39	1,050,465	22,231	32.180
	36.5	817.8	5,972.04	1,041.78	1,076,555	22,784	32.146
	38.1	852.1	5,928.29	1,085.48	1,117,935	23,661	32.092
	40.0	892.8	5,876.54	1,137.32	1,166,642	24,690	32.027
	42.5	945.9	5,808.80	1,204.97	1,229,540	26,023	31.943
	45.0	998.8	5,741.45	1,272.36	1,291,485	27,333	31.859
	47.5	1,051.4	5,674.50	1,339.36	1,352,356	28,620	31.775
	50.0	1,103.6	5,607.93	1,405.86	1,412,055	29,885	31.692
	52.5	1,155.6	5,541.76	1,472.10	1,470,835	31,127	31.609



Technical data of tubes

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945	55.0	1,207.2	5,475.99	1,537.83	1,528,459	32,348	31.526
	57.5	1,258.5	5,410.60	1,603.18	1,585,069	33,547	31.443
	60.0	1,309.6	5,345.61	1,668.28	1,640,806	34,724	31.361
	62.5	1,360.3	5,281.01	1,732.87	1,695,424	35,880	31.279
950	25.1	572.5	6,358.89	729.30	780,415	16,430	32.712
952	7.5	174.7	6,895.55	222.55	248,181	5,214	33.394
	7.9	183.9	6,883.78	234.27	261,032	5,485	33.380
	8.3	193.2	6,872.02	246.11	273,994	5,755	33.366
	8.7	202.4	6,860.27	257.83	286,801	6,025	33.352
	9.1	211.6	6,848.53	269.55	299,586	6,294	33.338
	9.5	220.8	6,836.80	281.27	312,349	6,562	33.324
	9.9	230.0	6,825.08	292.99	325,091	6,830	33.310
	10.3	239.2	6,813.37	304.71	337,811	7,097	33.296
	10.7	248.4	6,801.67	316.43	350,510	7,363	33.282
	11.1	257.6	6,789.98	328.15	363,187	7,629	33.268
	11.5	266.7	6,778.30	339.75	375,709	7,894	33.254
	11.9	275.9	6,766.63	351.46	388,332	8,158	33.240
	12.3	285.1	6,754.97	363.18	400,945	8,422	33.226
	12.7	294.2	6,743.33	374.78	413,404	8,685	33.212
	13.1	303.3	6,731.69	386.37	425,830	8,947	33.198
	13.5	312.5	6,720.06	398.09	438,379	9,208	33.184
	14.3	330.7	6,696.83	421.27	463,126	9,729	33.156
	15.1	348.9	6,673.64	444.46	487,800	10,248	33.128
	15.9	367.1	6,650.50	467.64	512,379	10,763	33.100
	16.7	385.2	6,627.39	490.70	536,743	11,276	33.073
	17.5	403.3	6,604.32	513.76	561,024	11,786	33.045
	18.3	421.4	6,581.29	536.82	585,221	12,294	33.017
	19.1	439.4	6,558.31	559.75	609,195	12,799	32.989
	19.8	455.2	6,538.23	579.87	630,166	13,239	32.965
	20.6	473.2	6,515.32	602.80	653,985	13,739	32.938
	21.4	491.1	6,492.45	625.61	677,594	14,236	32.910
	22.2	509.1	6,469.62	648.54	701,251	14,731	32.882
	23.0	527.0	6,446.83	671.34	724,686	15,223	32.855
	23.8	544.8	6,424.08	694.01	747,901	15,712	32.827
	24.6	562.6	6,401.37	716.69	771,047	16,199	32.800
	25.4	580.4	6,378.70	739.36	794,103	16,684	32.772
	27.0	615.9	6,333.48	784.59	839,859	17,645	32.717
	28.6	651.3	6,288.42	829.68	885,150	18,595	32.662
	29.4	668.9	6,265.95	852.10	907,545	19,067	32.635

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952	30.2	686.5	6,243.52	874.52	929,863	19,536	32.608
	31.8	721.7	6,198.79	919.36	974,268	20,467	32.553
	33.0	747.9	6,165.34	952.74	1,007,106	21,158	32.512
	33.3	754.5	6,156.99	961.15	1,015,357	21,330	32.502
	34.9	789.4	6,112.57	1,005.61	1,058,770	22,241	32.447
	36.5	824.1	6,068.30	1,049.81	1,101,608	23,143	32.393
	37.5	845.8	6,040.72	1,077.45	1,128,247	23,701	32.359
	38.1	858.7	6,024.20	1,093.89	1,144,024	24,034	32.339
	40.0	899.7	5,972.04	1,146.11	1,193,880	25,080	32.275
	42.5	953.3	5,903.75	1,214.39	1,258,406	26,436	32.190
	45.0	1,006.6	5,835.85	1,282.29	1,321,839	27,769	32.106
962	9.5	223.2	6,984.14	284.33	322,482	6,703	33.677
965	9.1	214.5	7,040.54	273.25	312,129	6,470	33.797
	9.5	223.9	7,028.65	285.22	325,532	6,746	33.783
	9.9	233.2	7,016.77	297.07	338,776	7,021	33.769
	10.3	242.5	7,004.89	308.92	351,998	7,295	33.755
	10.7	251.8	6,993.03	320.76	365,186	7,569	33.741
	11.1	261.1	6,981.18	332.61	378,364	7,842	33.727
	11.5	270.4	6,969.33	344.46	391,519	8,115	33.713
	11.9	279.7	6,957.50	356.31	404,653	8,387	33.699
	12.3	289.0	6,945.68	368.15	417,753	8,658	33.685
	12.7	298.3	6,933.87	380.00	430,842	8,928	33.671
	13.1	307.5	6,922.07	391.72	443,763	9,198	33.657
	13.5	316.8	6,910.27	403.57	456,808	9,467	33.643
	13.9	326.0	6,898.49	415.29	469,685	9,735	33.630
	14.3	335.3	6,886.72	427.13	482,676	10,003	33.616
	14.7	344.5	6,874.96	438.85	495,509	10,270	33.602
	15.1	353.7	6,863.20	450.57	508,321	10,536	33.588
	15.5	363.0	6,851.46	462.42	521,257	10,802	33.574
	15.9	372.2	6,839.73	474.14	534,026	11,067	33.560
	16.3	381.4	6,828.01	485.86	546,773	11,331	33.546
	16.7	390.6	6,816.30	497.58	559,499	11,594	33.532
	17.5	408.9	6,792.90	520.89	584,740	12,120	33.504
	18.3	427.3	6,769.55	544.33	610,041	12,642	33.477
	18.5	431.8	6,763.72	550.06	616,208	12,772	33.470
	19.1	445.6	6,746.24	567.64	635,112	13,162	33.449
	19.8	461.5	6,725.87	587.90	656,828	13,614	33.425
	20.6	479.8	6,702.63	611.21	681,740	14,129	33.397
	21.4	498.0	6,679.44	634.39	706,424	14,641	33.369

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965	22.2	516.2	6,656.28	657.58	731,036	15,150	33.342
	23.0	534.3	6,633.16	680.64	755,419	15,657	33.314
	23.8	552.4	6,610.08	703.69	779,710	16,161	33.287
	24.6	570.5	6,587.05	726.75	803,928	16,662	33.259
	25.4	588.6	6,564.05	749.81	828,065	17,161	33.232
	27.0	624.6	6,518.18	795.67	875,807	18,151	33.177
	27.5	635.8	6,503.88	809.94	890,592	18,458	33.159
	28.6	660.5	6,472.47	841.40	923,082	19,130	33.122
	29.4	678.4	6,449.67	864.20	946,528	19,616	33.094
	30.2	696.2	6,426.92	886.88	969,762	20,099	33.067
	31.8	731.9	6,381.53	932.36	1,016,125	21,058	33.012
	33.3	765.2	6,339.12	974.78	1,059,067	21,948	32.961
	34.9	800.5	6,294.04	1,019.75	1,104,267	22,887	32.907
	35.6	816.0	6,274.37	1,039.49	1,124,016	23,295	32.883
	36.5	835.8	6,249.13	1,064.71	1,149,148	23,816	32.852
	38.1	870.9	6,204.37	1,109.43	1,193,463	24,735	32.798
	40.0	912.5	6,151.43	1,162.42	1,245,569	25,814	32.734
	42.5	966.9	6,082.12	1,231.72	1,313,033	27,213	32.649
	45.0	1,021.0	6,013.20	1,300.64	1,379,369	28,588	32.565
	47.5	1,074.8	5,944.67	1,369.17	1,444,581	29,939	32.481
969	27.0	627.3	6,575.54	799.11	887,105	18,308	33.318
	27.5	638.5	6,561.18	813.38	902,017	18,618	33.301
972	7.1	169.0	7,205.09	215.29	250,566	5,154	34.115
	7.5	178.4	7,193.06	227.26	264,280	5,438	34.101
	7.9	187.8	7,181.03	239.24	277,982	5,721	34.087
	8.3	197.3	7,169.02	251.34	291,802	6,003	34.073
	8.7	206.7	7,157.02	263.31	305,447	6,284	34.059
	9.1	216.1	7,145.03	275.29	319,082	6,565	34.045
	9.5	225.5	7,133.05	287.26	332,682	6,845	34.031
	9.9	234.9	7,121.08	299.24	346,271	7,125	34.017
	10.3	244.3	7,109.12	311.21	359,826	7,403	34.003
	10.7	253.7	7,097.17	323.18	373,359	7,681	33.989
	11.1	263.0	7,085.23	335.03	386,730	7,959	33.975
	11.5	272.4	7,073.30	347.01	400,229	8,235	33.961

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
972	11.9	281.8	7,061.38	358.98	413,695	8,511	33.947
	12.3	291.1	7,049.47	370.83	426,999	8,786	33.933
	12.7	300.5	7,037.57	382.80	440,420	9,061	33.919
	13.1	309.8	7,025.68	394.65	453,680	9,335	33.905
	13.5	319.1	7,013.80	406.50	466,918	9,608	33.891
	14.3	337.7	6,990.07	430.19	493,317	10,152	33.863
	15.1	356.3	6,966.38	453.89	519,639	10,693	33.835
	15.9	374.9	6,942.73	477.58	545,862	11,232	33.807
	16.7	393.4	6,919.12	501.15	571,860	11,768	33.780
	17.5	411.9	6,895.55	524.71	597,761	12,301	33.752
	18.3	430.4	6,872.02	548.28	623,585	12,831	33.724
	19.1	448.9	6,848.53	571.85	649,324	13,359	33.696
	19.8	465.0	6,828.01	592.36	671,645	13,819	33.672
	20.6	483.3	6,804.59	615.67	696,928	14,341	33.644
	21.4	501.7	6,781.22	639.11	722,273	14,861	33.617
	22.2	520.0	6,757.89	662.42	747,386	15,378	33.589
	23.0	538.3	6,734.60	685.73	772,415	15,893	33.562
	23.8	556.6	6,711.34	709.04	797,360	16,405	33.534
	24.6	574.8	6,688.13	732.23	822,086	16,914	33.506
	25.4	593.0	6,664.96	755.41	846,717	17,421	33.479
	27.0	629.3	6,618.73	801.66	895,609	18,426	33.424
	27.5	640.6	6,604.32	816.05	910,749	18,738	33.407
	28.6	665.4	6,572.67	847.64	943,870	19,421	33.369
	30.2	701.4	6,526.77	893.50	991,673	20,406	33.314
	31.8	737.4	6,481.03	939.36	1,039,152	21,380	33.260
	33.3	770.9	6,438.29	982.04	1,083,026	22,284	33.208
	34.9	806.6	6,392.86	1,027.52	1,129,468	23,239	33.154
	36.5	842.1	6,347.59	1,072.74	1,175,311	24,183	33.100
	38.1	877.5	6,302.48	1,117.83	1,220,700	25,117	33.045
	40.0	919.4	6,249.13	1,171.21	1,274,019	26,214	32.981
	42.5	974.2	6,179.26	1,241.02	1,343,057	27,636	32.897
	45.0	1,028.8	6,109.80	1,310.57	1,411,081	29,033	32.813
	47.5	1,083.0	6,040.72	1,379.62	1,477,843	30,408	32.729
	50.0	1,136.9	5,972.04	1,448.28	1,543,475	31,759	32.645
	52.5	1,190.5	5,903.75	1,516.56	1,608,002	33,087	32.562
	55.0	1,243.8	5,835.85	1,584.46	1,671,435	34,392	32.479
	57.5	1,296.8	5,768.34	1,651.97	1,733,777	35,674	32.396
	60.0	1,349.5	5,701.23	1,719.11	1,795,060	36,935	32.313
976	20.0	471.5	6,880.84	600.64	686,483	14,068	33.807

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Technical data of tubes

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980	33.3	777.5	6,552.57	990.45	1,110,975	22,672	33.491
	40.0	927.3	6,361.72	1,181.27	1,307,075	26,674	33.264
985	9.5	228.5	7,328.98	291.08	346,273	7,032	34.490
	9.9	238.1	7,316.85	303.31	360,529	7,320	34.476
	10.3	247.6	7,304.73	315.41	374,607	7,606	34.462
	10.7	257.1	7,292.61	327.52	388,674	7,892	34.448
	11.1	266.6	7,280.51	339.62	402,706	8,177	34.434
	11.5	276.1	7,268.41	351.72	416,715	8,461	34.420
	11.9	285.6	7,256.33	363.82	430,702	8,745	34.406
	12.3	295.1	7,244.26	375.92	444,665	9,027	34.392
	12.7	304.5	7,232.19	387.90	458,463	9,310	34.378
	13.1	314.0	7,220.14	400.00	472,381	9,591	34.364
	13.5	323.4	7,208.10	411.97	486,122	9,872	34.351
	14.3	342.3	7,184.04	436.05	513,701	10,431	34.323
	15.1	361.2	7,160.02	460.13	541,190	10,988	34.295
	15.9	380.0	7,136.05	484.08	568,436	11,542	34.267
	16.7	398.8	7,112.11	508.03	595,591	12,093	34.239
	17.5	417.6	7,088.21	531.97	622,646	12,641	34.211
	18.3	436.3	7,064.36	555.80	649,483	13,187	34.184
	19.1	455.0	7,040.54	579.62	676,219	13,729	34.156
	19.8	471.3	7,019.73	600.38	699,445	14,202	34.132
	20.6	490.0	6,995.99	624.20	726,016	14,740	34.104
	21.4	508.6	6,972.29	647.90	752,360	15,275	34.076
	22.2	527.1	6,948.63	671.46	778,454	15,807	34.049
	23.0	545.7	6,925.01	695.16	804,624	16,336	34.021
	23.8	564.2	6,901.44	718.73	830,557	16,863	33.993
	24.6	582.7	6,877.90	742.29	856,392	17,387	33.966
	25.4	601.1	6,854.40	765.73	882,004	17,909	33.938
	27.0	637.9	6,807.52	812.61	932,971	18,943	33.883
	28.6	674.6	6,760.80	859.36	983,450	19,968	33.828
	29.4	692.9	6,737.50	882.68	1,008,501	20,476	33.801
	30.2	711.1	6,714.25	905.86	1,033,309	20,981	33.774
	31.8	747.5	6,667.85	952.23	1,082,687	21,985	33.719
	33.3	781.6	6,624.50	995.67	1,128,644	22,916	33.668
	33.7	790.6	6,612.97	1,007.13	1,140,710	23,162	33.654
	34.1	799.7	6,601.44	1,018.73	1,152,914	23,408	33.641
	34.5	808.7	6,589.92	1,030.19	1,164,940	23,654	33.627
	34.9	817.8	6,578.42	1,041.78	1,177,092	23,899	33.613
	36.5	853.8	6,532.50	1,087.64	1,224,933	24,872	33.559
	38.1	889.7	6,486.73	1,133.38	1,272,320	25,834	33.505

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985	40.0	932.2	6,432.60	1,187.52	1,327,981	26,964	33.440
	42.5	987.9	6,361.72	1,258.47	1,400,225	28,430	33.356
	45.0	1,043.2	6,291.23	1,328.92	1,471,156	29,871	33.272
	47.5	1,098.2	6,221.13	1,398.98	1,540,911	31,288	33.188
	50.0	1,152.9	6,151.43	1,468.66	1,609,514	32,681	33.104
	55.0	1,261.5	6,013.20	1,607.01	1,743,455	35,398	32.937
	60.0	1,368.7	5,876.54	1,743.57	1,872,649	38,024	32.772
987	39.7	927.5	6,469.62	1,181.53	1,327,676	26,902	33.521
1000	5.1	125.1	7,694.57	159.36	197,179	3,945	35.175
	5.6	137.3	7,679.03	174.90	216,190	4,325	35.157
	5.9	144.6	7,669.71	184.20	227,549	4,552	35.147
	6.4	156.8	7,654.20	199.75	246,512	4,931	35.129
	6.7	164.1	7,644.90	209.04	257,822	5,157	35.119
	7.1	173.9	7,632.51	221.53	273,008	5,459	35.105
	7.5	183.6	7,620.12	233.89	288,010	5,759	35.091
	7.9	193.3	7,607.75	246.24	302,975	6,059	35.077
	8.3	203.0	7,595.39	258.60	317,929	6,358	35.063
	8.7	212.7	7,583.03	270.96	332,858	6,657	35.049
	9.1	222.4	7,570.69	283.31	347,751	6,954	35.035
	9.5	232.1	7,558.36	295.67	362,632	7,251	35.021
	9.9	241.7	7,546.04	307.90	377,330	7,548	35.007
	10.3	251.4	7,533.72	320.25	392,151	7,843	34.993
	10.7	261.1	7,521.42	332.61	406,960	8,138	34.979
	11.1	270.7	7,509.13	344.84	421,587	8,432	34.965
	11.5	280.4	7,496.85	357.20	436,349	8,725	34.951
	11.9	290.0	7,484.57	369.43	450,928	9,018	34.937
	12.3	299.6	7,472.31	381.66	465,483	9,310	34.923
	12.7	309.2	7,460.06	393.89	480,015	9,601	34.909
	13.1	318.8	7,447.82	406.11	494,512	9,891	34.895
	13.5	328.4	7,435.59	418.34	508,997	10,181	34.881
	14.3	347.6	7,411.15	442.80	537,896	10,759	34.853
	15.1	366.8	7,386.76	467.26	566,702	11,333	34.825
	15.9	385.9	7,362.40	491.59	595,258	11,905	34.797
	16.7	405.0	7,338.09	515.92	623,720	12,474	34.769
	17.5	424.0	7,313.82	540.13	651,945	13,040	34.742
	18.3	443.1	7,289.58	564.46	680,224	13,603	34.714
	19.1	462.0	7,265.39	588.54	708,109	14,163	34.686
	19.8	478.6	7,244.26	609.68	732,518	14,651	34.662
	20.6	497.6	7,220.14	633.89	760,390	15,207	34.634

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1000	21.4	516.5	7,196.06	657.96	788,002	15,759	34.606
	22.2	535.3	7,172.03	681.91	815,382	16,309	34.579
	23.0	554.2	7,148.03	705.99	842,827	16,856	34.551
	23.8	573.0	7,124.07	729.94	870,027	17,400	34.524
	24.2	582.4	7,112.11	741.91	883,588	17,671	34.510
	24.6	591.8	7,100.16	753.89	897,139	17,941	34.496
	25.4	610.5	7,076.28	777.71	924,007	18,480	34.469
	26.2	629.2	7,052.44	801.53	950,788	19,016	34.441
	27.0	647.9	7,028.65	825.35	977,481	19,549	34.413
	28.6	685.2	6,981.18	872.87	1,030,462	20,608	34.359
	29.4	703.7	6,957.50	896.43	1,056,587	21,133	34.331
	30.2	722.3	6,933.87	920.13	1,082,791	21,655	34.304
	31.8	759.3	6,886.72	967.26	1,134,623	22,692	34.249
	33.3	793.9	6,842.66	1,011.34	1,182,785	23,655	34.198
	34.9	830.7	6,795.82	1,058.22	1,233,668	24,672	34.143
	36.5	867.3	6,749.15	1,104.84	1,283,913	25,678	34.089
	38.1	903.8	6,702.63	1,151.34	1,333,688	26,674	34.034
	40.0	947.0	6,647.60	1,206.37	1,392,151	27,843	33.970
1016	6.3	156.9	7,907.47	199.87	254,718	5,013	35.698
	6.4	159.4	7,904.32	203.06	258,732	5,091	35.695
	6.7	166.8	7,894.87	212.48	270,575	5,325	35.684
	7.1	176.7	7,882.27	225.10	286,420	5,637	35.670
	7.4	184.1	7,872.84	234.52	298,230	5,870	35.660
	7.5	186.5	7,869.69	237.58	302,062	5,947	35.656
	7.9	196.4	7,857.12	250.19	317,844	6,257	35.642
	8.0	198.9	7,853.98	253.38	321,833	6,334	35.639
	8.3	206.3	7,844.55	262.80	333,601	6,566	35.628
	8.4	208.7	7,841.41	265.86	337,419	6,643	35.625
	8.7	216.1	7,832.00	275.29	349,181	6,874	35.614
	8.8	218.6	7,828.86	278.47	353,145	6,951	35.611
	9.1	226.0	7,819.46	287.90	364,888	7,182	35.600
	9.5	235.8	7,806.92	300.38	380,406	7,489	35.586
	9.9	245.6	7,794.40	312.87	395,912	7,795	35.572
	10.0	248.1	7,791.27	316.05	399,857	7,871	35.569
	10.3	255.5	7,781.88	325.48	411,544	8,100	35.558
	10.7	265.3	7,769.38	337.96	426,988	8,405	35.544
	11.0	272.6	7,760.01	347.26	438,479	8,633	35.534
	11.1	275.1	7,756.89	350.45	442,420	8,708	35.530
	11.5	284.9	7,744.40	362.93	457,815	9,012	35.516
	11.9	294.7	7,731.93	375.41	473,185	9,314	35.502

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1016	12.0	297.1	7,728.81	378.47	476,948	9,389	35.499
	12.3	304.5	7,719.47	387.90	488,543	9,616	35.488
	12.5	309.4	7,713.24	394.14	496,207	9,766	35.481
	12.7	314.2	7,707.01	400.25	503,701	9,917	35.474
	13.0	321.6	7,697.68	409.68	515,264	10,142	35.464
	13.1	324.0	7,694.57	412.74	519,010	10,217	35.460
	13.5	333.8	7,682.14	425.22	534,283	10,516	35.446
	13.9	343.5	7,669.71	437.58	549,380	10,815	35.432
	14.0	346.0	7,666.61	440.76	553,264	10,890	35.429
	14.2	350.8	7,660.40	446.88	560,725	11,039	35.422
	14.3	353.3	7,657.30	450.06	564,604	11,113	35.419
	14.7	363.0	7,644.90	462.42	579,654	11,410	35.405
	15.1	372.7	7,632.51	474.78	594,679	11,707	35.391
	15.2	375.2	7,629.41	477.96	598,544	11,781	35.387
	15.5	382.5	7,620.12	487.26	609,831	12,003	35.377
	15.9	392.2	7,607.75	499.62	624,808	12,298	35.363
	16.0	394.6	7,604.66	502.68	628,511	12,372	35.359
	16.3	401.9	7,595.39	511.97	639,749	12,592	35.349
	16.7	411.6	7,583.03	524.33	654,678	12,886	35.335
	17.0	418.8	7,573.78	533.50	665,735	13,106	35.325
	17.1	421.3	7,570.69	536.69	669,584	13,179	35.321
	17.5	430.9	7,558.36	548.92	684,303	13,471	35.307
	18.0	443.0	7,542.96	564.33	702,822	13,836	35.290
	18.3	450.3	7,533.72	573.63	713,983	14,054	35.279
	18.7	459.9	7,521.42	585.86	728,632	14,344	35.266
	19.0	467.2	7,512.20	595.16	739,762	14,561	35.255
	19.1	469.6	7,509.13	598.22	743,419	14,633	35.252
	19.5	479.2	7,496.85	610.45	758,021	14,922	35.238
	19.8	486.5	7,487.64	619.75	769,115	15,138	35.227
	20.0	491.3	7,481.51	625.86	776,392	15,282	35.221
	20.2	496.1	7,475.38	631.97	783,663	15,426	35.214
	20.6	505.7	7,463.12	644.20	798,200	15,712	35.200
	21.4	524.9	7,438.64	668.66	827,205	16,284	35.172
	21.8	534.5	7,426.42	680.89	841,673	16,569	35.158
	22.2	544.1	7,414.20	693.12	856,117	16,852	35.144
	22.5	551.3	7,405.05	702.29	866,932	17,065	35.134
	23.0	563.3	7,389.81	717.58	884,936	17,418	35.117
	23.8	582.4	7,365.45	741.91	913,502	17,981	35.089
	24.2	591.9	7,353.28	754.01	927,671	18,262	35.075
	24.6	601.5	7,341.13	766.24	941,976	18,542	35.062
	25.0	611.0	7,328.98	778.34	956,099	18,821	35.048

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1016	25.4	620.5	7,316.85	790.45	970,212	19,099	35.034
	26.2	639.6	7,292.61	814.78	998,503	19,654	35.006
	27.0	658.5	7,268.41	838.85	1,026,386	20,206	34.979
	28.6	696.4	7,220.14	887.13	1,082,051	21,301	34.924
	29.4	715.3	7,196.06	911.21	1,109,676	21,845	34.897
	29.6	720.1	7,190.05	917.32	1,116,678	21,981	34.890
	30.0	729.5	7,178.03	929.30	1,130,373	22,251	34.876
	30.2	734.2	7,172.03	935.29	1,137,212	22,386	34.869
	31.8	771.9	7,124.07	983.31	1,191,847	23,460	34.814
	33.3	807.0	7,079.26	1,028.03	1,242,385	24,457	34.763
	33.5	811.7	7,073.30	1,034.01	1,249,121	24,589	34.756
	34.9	844.4	7,031.62	1,075.67	1,295,880	25,510	34.709
	36.0	870.1	6,998.96	1,108.41	1,332,442	26,228	34.671
	36.5	881.7	6,984.14	1,123.18	1,348,872	26,553	34.654
	38.1	918.9	6,936.82	1,170.57	1,401,377	27,584	34.600
	40.0	962.8	6,880.84	1,226.50	1,462,871	28,796	34.535
	42.5	1,020.4	6,807.52	1,299.87	1,542,797	30,368	34.451
	45.0	1,077.6	6,734.60	1,372.74	1,621,319	31,915	34.366
	47.5	1,134.5	6,662.06	1,445.22	1,698,582	33,437	34.282
	50.0	1,191.2	6,589.92	1,517.45	1,774,764	34,935	34.198
	52.5	1,247.5	6,518.18	1,589.17	1,849,572	36,408	34.115
	55.0	1,303.5	6,446.83	1,660.51	1,923,174	37,857	34.032
	57.5	1,359.2	6,375.86	1,731.46	1,995,569	39,283	33.949
	60.0	1,414.6	6,305.30	1,802.04	2,066,796	40,685	33.866
	62.5	1,469.7	6,235.12	1,872.23	2,136,843	42,063	33.783
1020	7.1	177.4	7,945.35	225.99	289,837	5,682	35.812
	7.5	187.3	7,932.71	238.60	305,770	5,995	35.798
	7.9	197.2	7,920.09	251.21	321,677	6,307	35.784
	8.3	207.1	7,907.47	263.82	337,560	6,618	35.770
	8.5	212.0	7,901.17	270.06	345,408	6,774	35.763
	8.7	217.0	7,894.87	276.43	353,417	6,929	35.756
	9.0	224.4	7,885.42	285.86	365,258	7,162	35.745
	9.1	226.9	7,882.27	289.04	369,249	7,239	35.742
	9.5	236.7	7,869.69	301.53	384,903	7,549	35.728
	9.9	246.6	7,857.12	314.14	400,686	7,857	35.714
	10.0	249.1	7,853.98	317.32	404,662	7,934	35.710
	10.3	256.5	7,844.55	326.75	416,443	8,165	35.700
	10.7	266.3	7,832.00	339.24	432,023	8,472	35.686
	11.0	273.7	7,822.59	348.66	443,758	8,702	35.675
	11.1	276.2	7,819.46	351.85	447,730	8,778	35.672

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1020	11.5	286.0	7,806.92	364.33	463,248	9,084	35.658
	11.9	295.9	7,794.40	376.94	478,906	9,389	35.644
	12.0	298.3	7,791.27	380.00	482,699	9,465	35.640
	12.3	305.7	7,781.88	389.43	494,387	9,693	35.630
	12.5	310.6	7,775.63	395.67	502,112	9,845	35.623
	12.7	315.5	7,769.38	401.91	509,830	9,996	35.616
	13.0	322.9	7,760.01	411.34	521,486	10,223	35.605
	13.1	325.3	7,756.89	414.39	525,249	10,299	35.602
	13.5	335.1	7,744.40	426.88	540,657	10,601	35.588
	13.9	344.9	7,731.93	439.36	556,027	10,902	35.574
	14.0	347.3	7,728.81	442.42	559,790	10,977	35.570
	14.3	354.7	7,719.47	451.85	571,385	11,203	35.560
	14.7	364.5	7,707.01	464.33	586,707	11,502	35.546
	15.0	371.8	7,697.68	473.63	598,106	11,727	35.536
	15.1	374.2	7,694.57	476.69	601,852	11,801	35.532
	15.5	384.0	7,682.14	489.17	617,125	12,100	35.518
	15.9	393.7	7,669.71	501.53	632,222	12,397	35.504
	16.0	396.2	7,666.61	504.71	636,106	12,472	35.501
	16.3	403.5	7,657.30	514.01	647,447	12,694	35.490
	16.7	413.2	7,644.90	526.37	662,496	12,990	35.476
	17.0	420.5	7,635.60	535.67	673,805	13,212	35.466
	17.5	432.7	7,620.12	551.21	692,673	13,580	35.449
	17.9	442.4	7,607.75	563.57	707,650	13,874	35.435
	18.0	444.8	7,604.66	566.62	711,340	13,948	35.431
	18.3	452.1	7,595.39	575.92	722,591	14,168	35.421
	19.0	469.0	7,573.78	597.45	748,577	14,679	35.397
	19.1	471.5	7,570.69	600.64	752,426	14,752	35.393
	19.3	476.3	7,564.52	606.75	759,782	14,898	35.386
	19.8	488.4	7,549.12	622.17	778,329	15,261	35.369
	20.0	493.2	7,542.96	628.28	785,664	15,406	35.362
	20.6	507.7	7,524.50	646.75	807,811	15,840	35.341
	21.0	517.4	7,512.20	659.11	822,604	16,129	35.327
	21.4	527.0	7,499.92	671.34	837,211	16,416	35.313
	22.0	541.5	7,481.51	689.81	859,234	16,847	35.293
	22.2	546.3	7,475.38	695.92	866,505	16,990	35.286
	23.0	565.5	7,450.88	720.38	895,557	17,560	35.258
	23.1	567.9	7,447.82	723.44	899,185	17,632	35.255
	23.4	575.1	7,438.64	732.61	910,047	17,845	35.244
	23.8	584.7	7,426.42	744.84	924,515	18,128	35.231
	24.6	603.9	7,402.00	769.30	953,380	18,693	35.203
	25.4	623.0	7,377.62	793.63	981,993	19,255	35.175



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1020	26.0	637.4	7,359.36	811.97	1,003,506	19,675	35.155
	27.0	661.2	7,328.98	842.29	1,038,942	20,372	35.120
	27.3	668.4	7,319.88	851.46	1,049,636	20,580	35.110
	28.6	699.3	7,280.51	890.83	1,095,378	21,477	35.065
	29.0	708.8	7,268.41	902.93	1,109,387	21,751	35.052
	29.8	727.7	7,244.26	927.01	1,137,191	22,298	35.024
	30.2	737.2	7,232.19	939.11	1,151,133	22,571	35.010
	31.8	775.0	7,184.04	987.26	1,206,371	23,654	34.956
	33.3	810.3	7,139.04	1,032.23	1,257,625	24,660	34.904
	34.9	847.9	7,091.20	1,080.13	1,311,872	25,722	34.850
	38.1	922.6	6,995.99	1,175.29	1,418,545	27,814	34.741
	40.0	966.8	6,939.77	1,231.59	1,480,987	29,037	34.677
	42.5	1,024.6	6,866.14	1,305.22	1,561,879	30,623	34.592
	45.0	1,082.0	6,792.90	1,378.34	1,641,345	32,184	34.508
	47.5	1,139.2	6,720.06	1,451.21	1,719,707	33,720	34.424
	50.0	1,196.1	6,647.60	1,523.69	1,796,812	35,231	34.340
	52.5	1,252.7	6,575.54	1,595.80	1,872,696	36,718	34.256
	55.0	1,308.9	6,503.88	1,667.39	1,947,199	38,181	34.173
	57.5	1,364.9	6,432.60	1,738.73	2,020,649	39,619	34.090
	60.0	1,420.5	6,361.72	1,809.55	2,092,745	41,034	34.007
	62.5	1,475.9	6,291.23	1,880.13	2,163,824	42,426	33.924
1024	24.0	591.9	7,481.51	754.01	943,055	18,418	35.365
1038	30.6	760.2	7,493.78	968.41	1,229,628	23,693	35.633
1045	6.4	163.9	8,367.91	208.79	281,535	5,389	36.720
	6.7	171.6	8,358.19	218.60	294,594	5,637	36.710
	7.1	181.7	8,345.23	231.46	311,686	5,967	36.696
	7.5	191.9	8,332.28	244.46	328,940	6,295	36.682
	7.9	202.1	8,319.34	257.45	346,154	6,624	36.668
	8.3	212.2	8,306.42	270.32	363,180	6,951	36.654
	8.7	222.3	8,293.50	283.18	380,167	7,277	36.640
	9.5	242.6	8,267.69	309.04	414,249	7,928	36.611
	9.9	252.7	8,254.80	321.91	431,170	8,253	36.597
	10.3	262.8	8,241.92	334.78	448,065	8,576	36.583
	10.7	272.9	8,229.06	347.64	464,921	8,899	36.569
	11.1	283.0	8,216.20	360.51	481,764	9,221	36.555
	11.5	293.1	8,203.35	373.38	498,581	9,542	36.542
	11.9	303.2	8,190.51	386.24	515,359	9,863	36.528
	12.3	313.3	8,177.69	399.11	532,124	10,183	36.514

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1045	12.7	323.3	8,164.87	411.85	548,690	10,502	36.500
	13.1	333.4	8,152.06	424.71	565,390	10,820	36.486
	13.5	343.4	8,139.26	437.45	581,904	11,138	36.472
	14.3	363.5	8,113.70	463.06	615,029	11,770	36.444
	15.1	383.5	8,088.17	488.54	647,879	12,400	36.416
	15.9	403.5	8,062.69	514.01	680,613	13,027	36.388
	16.7	423.5	8,037.24	539.49	713,260	13,651	36.360
	17.5	443.5	8,011.84	564.97	745,805	14,272	36.332
	18.3	463.4	7,986.48	590.32	778,077	14,890	36.305
	19.1	483.2	7,961.15	615.54	810,078	15,505	36.277
	19.8	500.6	7,939.03	637.71	838,132	16,041	36.253
	20.6	520.4	7,913.78	662.93	869,946	16,650	36.225
	21.4	540.2	7,888.57	688.15	901,661	17,257	36.197
	22.2	560.0	7,863.40	713.38	933,291	17,861	36.169
	23.0	579.7	7,838.27	738.47	964,639	18,462	36.142
	23.8	599.4	7,813.19	763.57	995,901	19,060	36.114
	24.6	619.1	7,788.14	788.66	1,027,053	19,655	36.087
	25.4	638.7	7,763.13	813.63	1,057,952	20,247	36.059
	27.0	677.9	7,713.24	863.57	1,119,460	21,423	36.004
	28.6	716.9	7,663.51	913.25	1,180,247	22,588	35.949
	29.4	736.4	7,638.70	938.09	1,210,497	23,166	35.921
	30.2	755.8	7,613.94	962.80	1,240,485	23,741	35.894
	31.8	794.6	7,564.52	1,012.23	1,300,191	24,884	35.839
	33.3	830.9	7,518.35	1,058.47	1,355,696	25,944	35.788
	34.9	869.4	7,469.25	1,107.52	1,414,192	27,065	35.733
	36.5	907.8	7,420.31	1,156.43	1,472,142	28,175	35.679
	38.1	946.1	7,371.53	1,205.22	1,529,574	29,274	35.624
	40.0	991.4	7,313.82	1,262.93	1,597,015	30,565	35.560
	42.5	1,050.8	7,238.22	1,338.60	1,684,649	32,240	35.475
	45.0	1,109.8	7,163.02	1,413.76	1,770,779	33,890	35.391
	47.5	1,168.5	7,088.21	1,488.54	1,855,581	35,513	35.306
	50.0	1,226.9	7,013.80	1,562.93	1,939,059	37,112	35.222
	52.5	1,285.0	6,939.77	1,636.94	2,021,237	38,685	35.139
	55.0	1,342.8	6,866.14	1,710.57	2,102,130	40,233	35.055
	57.5	1,400.3	6,792.90	1,783.82	2,181,751	41,756	34.972
	60.0	1,457.5	6,720.06	1,856.69	2,260,114	43,256	34.889
1054	7.5	193.6	8,478.53	246.62	337,628	6,405	37.000
	7.9	203.8	8,465.48	259.62	355,156	6,739	36.986
	8.3	214.0	8,452.44	272.61	372,643	7,073	36.972
	8.7	224.3	8,439.41	285.73	390,282	7,405	36.958

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1054	9.1	234.5	8,426.39	298.73	407,729	7,737	36.944
	9.5	244.7	8,413.37	311.72	425,136	8,067	36.930
	9.9	254.9	8,400.37	324.71	442,516	8,398	36.916
	10.3	265.1	8,387.38	337.71	459,883	8,727	36.902
	10.7	275.3	8,374.40	350.70	477,210	9,055	36.888
	11.0	282.9	8,364.67	360.38	490,103	9,301	36.877
	11.1	285.5	8,361.43	363.69	494,511	9,383	36.874
	11.5	295.7	8,348.47	376.69	511,799	9,710	36.860
	11.9	305.8	8,335.52	389.55	528,870	10,036	36.846
	12.3	316.0	8,322.58	402.55	546,105	10,362	36.832
	12.7	326.1	8,309.65	415.41	563,123	10,687	36.818
	13.1	336.3	8,296.73	428.41	580,305	11,011	36.804
	13.5	346.4	8,283.82	441.27	597,271	11,334	36.790
	14.3	366.7	8,258.02	467.13	631,315	11,978	36.762
	15.0	384.4	8,235.49	489.68	660,913	12,539	36.738
	15.1	386.9	8,232.27	492.87	665,092	12,619	36.734
	15.9	407.1	8,206.56	518.60	698,752	13,258	36.706
	16.7	427.2	8,180.89	544.20	732,133	13,893	36.678
	17.5	447.3	8,155.26	569.81	765,425	14,525	36.651
	18.5	472.4	8,123.28	601.78	806,838	15,311	36.616
	19.1	487.5	8,104.12	621.02	831,688	15,781	36.595
	19.8	505.0	8,081.80	643.31	860,396	16,326	36.571
	20.6	525.0	8,056.32	668.79	893,119	16,947	36.543
	21.4	545.0	8,030.89	694.27	925,740	17,565	36.515
	22.2	564.9	8,005.50	719.62	958,088	18,180	36.488
	23.0	584.8	7,980.14	744.97	990,335	18,792	36.460
	24.6	624.5	7,929.55	795.54	1,054,358	20,007	36.405
	25.4	644.3	7,904.32	820.76	1,086,135	20,610	36.377
	27.0	683.9	7,853.98	871.21	1,149,407	21,808	36.322
	28.6	723.2	7,803.79	921.27	1,211,773	22,995	36.267
	29.4	742.9	7,778.76	946.37	1,242,903	23,584	36.239
	31.8	801.7	7,703.90	1,021.27	1,335,188	25,334	36.157
	33.3	838.2	7,657.30	1,067.77	1,392,022	26,415	36.106
	34.9	877.1	7,607.75	1,117.32	1,452,213	27,557	36.051
	36.5	915.9	7,558.36	1,166.75	1,511,873	28,688	35.997
	38.1	954.6	7,509.13	1,216.05	1,570,991	29,808	35.942
	40.0	1,000.3	7,450.88	1,274.27	1,640,298	31,124	35.878
	42.5	1,060.2	7,374.58	1,350.57	1,730,314	32,832	35.793
	45.0	1,119.8	7,298.67	1,426.50	1,818,977	34,514	35.709
	47.5	1,179.1	7,223.15	1,502.04	1,906,274	36,170	35.624
	50.0	1,238.0	7,148.03	1,577.07	1,992,068	37,800	35.540

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Technical data of tubes

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1066	7.9	206.1	8,662.31	262.55	367,451	6,895	37.410
	8.0	208.7	8,659.01	265.86	372,014	6,981	37.407
	8.3	216.5	8,649.11	275.80	385,706	7,236	37.396
	8.7	226.9	8,635.93	289.04	403,919	7,577	37.382
	9.1	237.2	8,622.76	302.17	421,950	7,916	37.368
	9.5	247.5	8,609.60	315.29	439,941	8,255	37.354
	9.9	257.9	8,596.45	328.54	458,085	8,593	37.340
	10.0	260.4	8,593.16	331.72	462,433	8,677	37.336
	10.3	268.2	8,583.30	341.66	476,021	8,930	37.326
	10.7	278.5	8,570.17	354.78	493,930	9,266	37.312
	11.1	288.8	8,557.05	367.90	511,812	9,601	37.298
	11.4	296.5	8,547.22	377.71	525,164	9,853	37.287
	11.5	299.1	8,543.94	381.02	529,667	9,936	37.284
	11.9	309.4	8,530.84	394.14	547,494	10,270	37.270
	12.3	319.6	8,517.75	407.13	565,114	10,603	37.256
	12.5	324.8	8,511.20	413.76	574,102	10,770	37.249
	12.7	329.9	8,504.66	420.25	582,888	10,936	37.242
	13.0	337.6	8,494.86	430.06	596,159	11,185	37.232
	13.1	340.2	8,491.59	433.38	600,648	11,268	37.228
	13.5	350.4	8,478.53	446.37	618,188	11,599	37.214
	13.9	360.7	8,465.48	459.49	635,881	11,929	37.200
	14.0	363.2	8,462.22	462.68	640,176	12,011	37.197
	14.2	368.3	8,455.70	469.17	648,912	12,176	37.190
	14.3	370.9	8,452.44	472.48	653,367	12,258	37.186
	14.5	376.0	8,445.92	478.98	662,108	12,423	37.179
	14.7	381.1	8,439.41	485.48	670,841	12,587	37.172
	15.1	391.4	8,426.39	498.60	688,454	12,915	37.158
	15.2	393.9	8,423.13	501.78	692,715	12,997	37.155
	15.3	396.5	8,419.88	505.10	697,167	13,078	37.151
	15.5	401.6	8,413.37	511.59	705,860	13,242	37.144
	15.9	411.8	8,400.37	524.59	723,254	13,568	37.130
	16.3	422.0	8,387.38	537.58	740,608	13,894	37.116
	16.7	432.2	8,374.40	550.57	757,935	14,219	37.103
	17.0	439.8	8,364.67	560.25	770,827	14,462	37.092
	17.5	452.5	8,348.47	576.43	792,345	14,866	37.075
	17.9	462.7	8,335.52	589.43	809,607	15,189	37.061
	18.3	472.8	8,322.58	602.29	826,651	15,511	37.047
	18.5	477.9	8,316.11	608.79	835,259	15,671	37.040
	18.7	483.0	8,309.65	615.29	843,860	15,832	37.033
	18.8	485.5	8,306.42	618.47	848,063	15,912	37.030

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1066	19.0	490.6	8,299.96	624.97	856,654	16,072	37.023
	19.1	493.1	8,296.73	628.15	860,852	16,152	37.019
	19.5	503.3	8,283.82	641.15	878,009	16,472	37.005
	19.8	510.9	8,274.14	650.83	890,764	16,711	36.995
	20.6	531.1	8,248.36	676.56	924,592	17,347	36.967
	21.0	541.2	8,235.49	689.43	941,474	17,664	36.953
	21.4	551.3	8,222.63	702.29	958,316	17,980	36.939
	21.8	561.4	8,209.77	715.16	975,146	18,295	36.926
	22.2	571.5	8,196.93	728.03	991,951	18,610	36.912
	22.6	581.6	8,184.10	740.89	1,008,717	18,923	36.898
	23.0	591.6	8,171.28	753.63	1,025,293	19,236	36.884
	23.4	601.7	8,158.46	766.50	1,042,021	19,549	36.870
	23.8	611.7	8,145.66	779.24	1,058,546	19,861	36.856
	24.2	621.8	8,132.87	792.10	1,075,209	20,171	36.843
	24.6	631.8	8,120.09	804.84	1,091,684	20,482	36.829
	25.0	641.8	8,107.31	817.58	1,108,134	20,791	36.815
	25.4	651.8	8,094.55	830.32	1,124,558	21,100	36.801
	25.8	661.9	8,081.80	843.18	1,141,119	21,408	36.787
	26.2	671.9	8,069.06	855.92	1,157,493	21,715	36.774
	26.5	679.4	8,059.51	865.48	1,169,764	21,945	36.763
	26.6	681.9	8,056.32	868.66	1,173,842	22,022	36.760
	27.0	691.8	8,043.60	881.27	1,189,990	22,327	36.746
	27.4	701.8	8,030.89	894.01	1,206,289	22,632	36.732
	27.8	711.8	8,018.19	906.75	1,222,562	22,937	36.719
	28.2	721.8	8,005.50	919.49	1,238,811	23,240	36.705
	28.6	731.7	7,992.81	932.10	1,254,859	23,543	36.691
	29.0	741.7	7,980.14	944.84	1,271,058	23,846	36.677
	29.4	751.6	7,967.48	957.45	1,287,057	24,147	36.664
	29.8	761.5	7,954.83	970.06	1,303,031	24,448	36.650
	30.2	771.5	7,942.19	982.80	1,319,156	24,748	36.636
	31.0	791.3	7,916.93	1,008.03	1,350,995	25,346	36.609
	31.8	811.1	7,891.72	1,033.25	1,382,722	25,941	36.581
	33.3	848.1	7,844.55	1,080.38	1,441,738	27,049	36.530
	33.5	853.0	7,838.27	1,086.62	1,449,522	27,196	36.523
	34.9	887.5	7,794.40	1,130.57	1,504,203	28,220	36.475
	35.1	892.4	7,788.14	1,136.82	1,511,952	28,366	36.468
	36.5	926.7	7,744.40	1,180.51	1,565,950	29,380	36.421
	38.1	965.8	7,694.57	1,230.32	1,627,144	30,529	36.366
	40.0	1,012.1	7,635.60	1,289.30	1,699,098	31,878	36.302
	42.5	1,072.8	7,558.36	1,366.62	1,792,593	33,631	36.217
	45.0	1,133.1	7,481.51	1,443.44	1,884,530	35,356	36.132

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1066	47.5	1,193.1	7,405.05	1,519.87	1,975,068	37,056	36.048
	50.0	1,252.8	7,328.98	1,595.92	2,064,235	38,729	35.964
	52.5	1,312.2	7,253.31	1,671.59	2,152,044	40,376	35.880
	55.0	1,371.3	7,178.03	1,746.88	2,238,509	41,998	35.797
	57.5	1,430.1	7,103.14	1,821.78	2,323,631	43,595	35.713
	60.0	1,488.6	7,028.65	1,896.31	2,407,451	45,167	35.630
1072	16.6	432.1	8,475.27	550.45	766,601	14,301	37.318
	19.6	511.6	8,475.27	651.72	912,892	16,937	37.426
	9.1	240.3	8,854.72	306.11	438,851	8,128	37.863
	14.3	375.8	8,682.11	478.73	679,749	12,589	37.681
	15.1	396.6	8,655.71	505.22	716,301	13,263	37.653
	15.5	406.9	8,642.52	518.34	734,359	13,600	37.639
1080	15.9	417.3	8,629.34	531.59	752,573	13,935	37.625
	16.3	427.6	8,616.18	544.71	770,576	14,270	37.611
	16.7	437.9	8,603.02	557.83	788,553	14,604	37.597
	17.9	468.9	8,563.61	597.32	842,503	15,601	37.556
	18.3	479.2	8,550.49	610.45	860,385	15,931	37.542
	18.7	489.4	8,537.39	623.44	878,043	16,261	37.528
1088	19.1	499.7	8,524.29	636.56	895,858	16,591	37.514
	19.5	510.0	8,511.20	649.68	913,645	16,919	37.500
	19.8	517.7	8,501.40	659.49	926,927	17,165	37.490
	19.9	520.3	8,498.13	662.80	931,406	17,247	37.486
	20.2	528.0	8,488.33	672.61	944,667	17,492	37.476
	20.6	538.2	8,475.27	685.61	962,213	17,819	37.462
1096	21.0	548.5	8,462.22	698.73	979,901	18,145	37.448
	21.4	558.7	8,449.18	711.72	997,379	18,469	37.434
	21.8	568.9	8,436.15	724.71	1,014,832	18,794	37.420
	22.2	579.1	8,423.13	737.71	1,032,272	19,117	37.407
	22.6	589.4	8,410.12	750.83	1,049,853	19,440	37.393
	23.0	599.6	8,397.12	763.82	1,067,226	19,762	37.379
1104	23.4	609.8	8,384.14	776.82	1,084,587	20,083	37.365
	23.8	619.9	8,371.16	789.68	1,101,727	20,403	37.351
	24.2	630.1	8,358.19	802.68	1,119,036	20,723	37.337
	24.6	640.3	8,345.23	815.67	1,136,304	21,042	37.324
	25.0	650.5	8,332.28	828.66	1,153,547	21,360	37.310
	25.4	660.6	8,319.34	841.53	1,170,596	21,678	37.296
1112	25.8	670.8	8,306.42	854.52	1,187,786	21,995	37.282
	26.2	680.9	8,293.50	867.39	1,204,784	22,311	37.268

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1080	29.8	771.8	8,177.69	983.18	1,356,553	25,122	37.145
	30.2	781.9	8,164.87	996.05	1,373,294	25,430	37.131
	31.0	802.0	8,139.26	1,021.66	1,406,522	26,046	37.103
1084	20.6	540.2	8,540.66	688.15	973,082	17,955	37.603
	21.0	550.5	8,527.56	701.27	990,903	18,283	37.590
	21.4	560.8	8,514.47	714.39	1,008,698	18,611	37.576
	21.8	571.1	8,501.40	727.52	1,026,480	18,937	37.562
	22.2	581.3	8,488.33	740.51	1,044,038	19,263	37.548
	22.6	591.6	8,475.27	753.63	1,061,752	19,589	37.534
	22.8	596.7	8,468.74	760.13	1,070,515	19,751	37.527
	23.0	601.8	8,462.22	766.62	1,079,257	19,913	37.520
	23.4	612.1	8,449.18	779.75	1,096,933	20,237	37.506
	23.8	622.3	8,436.15	792.74	1,114,385	20,560	37.493
	24.2	632.5	8,423.13	805.73	1,131,811	20,882	37.479
	24.6	642.7	8,410.12	818.73	1,149,224	21,204	37.465
	25.0	652.9	8,397.12	831.72	1,166,598	21,524	37.451
	25.4	663.1	8,384.14	844.71	1,183,945	21,844	37.437
	33.0	855.4	8,139.26	1,089.68	1,506,060	27,785	37.176
	33.5	867.9	8,123.28	1,105.61	1,526,671	28,167	37.159
	40.0	1,029.9	7,916.93	1,311.97	1,790,078	33,026	36.938
1088	40.0	1,033.8	7,980.14	1,316.94	1,810,634	33,284	37.079
1100	9.5	255.5	9,177.85	325.48	483,859	8,797	38.556
	9.9	266.2	9,164.27	339.11	503,755	9,157	38.542
	10.3	276.8	9,150.70	352.61	523,429	9,517	38.528
	10.7	287.4	9,137.14	366.11	543,074	9,876	38.514
	11.1	298.1	9,123.59	379.75	562,897	10,234	38.500
	11.5	308.7	9,110.05	393.25	582,484	10,591	38.486
	11.9	319.3	9,096.52	406.75	602,043	10,947	38.472
	12.3	329.9	9,083.01	420.25	621,572	11,303	38.458
	12.7	340.6	9,069.50	433.89	641,280	11,658	38.444
	13.1	351.1	9,056.00	447.26	660,560	12,012	38.430
	13.5	361.7	9,042.51	460.76	680,004	12,365	38.416
	13.9	372.3	9,029.03	474.27	699,434	12,717	38.402
	14.3	382.9	9,015.56	487.77	718,820	13,069	38.388
	15.1	404.0	8,988.65	514.65	757,331	13,770	38.360
	15.9	425.1	8,961.79	541.53	795,728	14,468	38.332
	16.7	446.2	8,934.96	568.41	834,012	15,162	38.304
	17.5	467.2	8,908.17	595.16	871,993	15,854	38.277

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1100	18.3	488.2	8,881.43	621.91	909,862	16,542	38.249
	19.1	509.2	8,854.72	648.66	947,619	17,228	38.221
	19.8	527.5	8,831.39	671.97	980,425	17,825	38.197
	20.6	548.4	8,804.76	698.60	1,017,798	18,504	38.169
	21.4	569.2	8,778.17	725.10	1,054,872	19,181	38.141
	22.2	590.1	8,751.62	751.72	1,092,010	19,854	38.114
	23.0	610.9	8,725.11	778.22	1,128,865	20,524	38.086
	23.8	631.7	8,698.64	804.71	1,165,595	21,192	38.058
	24.6	652.4	8,672.21	831.08	1,202,043	21,856	38.031
	25.4	673.1	8,645.82	857.45	1,238,383	22,517	38.003
	27.0	714.5	8,593.16	910.19	1,310,740	23,831	37.948
	28.6	755.7	8,540.66	962.68	1,382,307	25,132	37.893
	29.4	776.3	8,514.47	988.92	1,417,924	25,778	37.865
	30.2	796.8	8,488.33	1,015.03	1,453,249	26,422	37.838
	31.8	837.7	8,436.15	1,067.13	1,523,412	27,699	37.783
	33.3	876.0	8,387.38	1,115.92	1,588,732	28,886	37.731
	34.9	916.7	8,335.52	1,167.77	1,657,731	30,141	37.677
	36.5	957.3	8,283.82	1,219.49	1,726,134	31,384	37.622
	38.1	997.8	8,232.27	1,271.08	1,793,944	32,616	37.567
	40.0	1,045.7	8,171.28	1,332.10	1,873,599	34,064	37.503
	42.5	1,108.4	8,091.36	1,411.97	1,976,957	35,944	37.418
	45.0	1,170.8	8,011.84	1,491.46	2,078,816	37,797	37.333
	47.5	1,232.9	7,932.71	1,570.57	2,179,191	39,622	37.249
	50.0	1,294.8	7,853.98	1,649.43	2,278,275	41,421	37.165
	55.0	1,417.4	7,697.68	1,805.61	2,471,542	44,938	36.997
	60.0	1,538.9	7,542.96	1,960.38	2,659,255	48,350	36.830
1117	5.6	153.5	9,603.79	195.54	301,924	5,406	39.294
	5.9	161.7	9,593.37	205.99	317,889	5,691	39.283
	6.4	175.3	9,576.02	223.31	344,309	6,165	39.266
	6.7	183.5	9,565.62	233.76	360,227	6,448	39.255
	7.1	194.3	9,551.75	247.52	381,159	6,826	39.241
	7.5	205.2	9,537.90	261.40	402,244	7,203	39.227
	7.9	216.1	9,524.06	275.29	423,315	7,579	39.213
	8.0	218.8	9,520.60	278.73	428,528	7,673	39.210
	8.3	226.9	9,510.22	289.04	444,141	7,954	39.199
	8.7	237.8	9,496.40	302.93	465,151	8,328	39.185
	9.1	248.6	9,482.59	316.69	485,931	8,702	39.171
	9.5	259.5	9,468.78	330.57	506,866	9,075	39.157
	9.9	270.3	9,454.99	344.33	527,586	9,446	39.143
	10.0	273.0	9,451.54	347.77	532,762	9,539	39.139

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1117	10.3	281.1	9,441.21	358.09	548,277	9,818	39.129
	10.7	291.9	9,427.44	371.85	568,937	10,188	39.115
	11.1	302.7	9,413.67	385.61	589,568	10,557	39.101
	11.5	313.5	9,399.92	399.36	610,153	10,926	39.087
	11.9	324.3	9,386.18	413.12	630,725	11,294	39.073
	12.0	327.0	9,382.74	416.56	635,863	11,386	39.069
	12.3	335.1	9,372.44	426.88	651,266	11,661	39.059
	12.5	340.5	9,365.58	433.76	661,525	11,844	39.052
	12.7	345.9	9,358.72	440.64	671,778	12,027	39.045
	13.1	356.6	9,345.01	454.27	692,062	12,393	39.031
	13.5	367.4	9,331.31	468.03	712,514	12,757	39.017
	13.9	378.1	9,317.62	481.66	732,739	13,121	39.003
	14.2	386.2	9,307.35	491.97	748,022	13,393	38.993
	14.3	388.9	9,303.93	495.41	753,117	13,484	38.989
	14.7	399.6	9,290.26	509.04	773,284	13,846	38.975
	15.1	410.3	9,276.60	522.68	793,436	14,208	38.961
	15.5	421.1	9,262.95	536.43	813,726	14,568	38.947
	15.9	431.8	9,249.30	550.06	833,804	14,928	38.933
	16.3	442.5	9,235.67	563.69	853,854	15,287	38.919
	16.5	447.8	9,228.86	570.45	863,784	15,466	38.912
	16.7	453.2	9,222.05	577.32	873,874	15,645	38.905
	17.5	474.5	9,194.84	604.46	913,646	16,360	38.878
	17.7	479.9	9,188.04	611.34	923,715	16,538	38.871
	18.3	495.9	9,167.66	631.72	953,484	17,071	38.850
	19.1	517.2	9,140.53	658.85	993,010	17,778	38.822
	19.8	535.8	9,116.82	682.55	1,027,443	18,395	38.798
	20.6	557.0	9,089.76	709.55	1,066,558	19,097	38.770
	21.4	578.2	9,062.75	736.56	1,105,574	19,796	38.742
	22.2	599.4	9,035.77	763.57	1,144,477	20,491	38.714
	23.0	620.5	9,008.83	790.45	1,183,072	21,184	38.687
	23.5	633.7	8,992.02	807.26	1,207,151	21,615	38.669
	23.8	641.7	8,981.93	817.45	1,221,733	21,874	38.659
	24.6	662.7	8,955.08	844.20	1,259,908	22,560	38.631
	25.1	675.9	8,938.31	861.02	1,283,862	22,987	38.614
	25.4	683.8	8,928.26	871.08	1,298,166	23,243	38.604
	26.5	712.7	8,891.45	907.90	1,350,379	24,178	38.566
	27.0	725.8	8,874.75	924.59	1,373,974	24,601	38.549
	28.6	767.7	8,821.40	977.96	1,449,132	25,946	38.494
	29.4	788.6	8,794.78	1,004.59	1,486,464	26,614	38.466
	30.2	809.4	8,768.21	1,031.08	1,523,480	27,279	38.439
	30.5	817.3	8,758.25	1,041.15	1,537,535	27,528	38.428

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1117	31.8	851.1	8,715.18	1,084.20	1,597,393	28,600	38.384
	33.3	890.0	8,665.61	1,133.76	1,665,939	29,828	38.332
	34.9	931.4	8,612.89	1,186.50	1,738,457	31,126	38.277
	36.0	959.7	8,576.74	1,222.55	1,787,761	32,011	38.240
	36.5	972.6	8,560.33	1,238.98	1,810,169	32,412	38.223
	38.1	1,013.8	8,507.93	1,291.46	1,881,458	33,686	38.168
	40.0	1,062.4	8,445.92	1,353.38	1,964,988	35,184	38.103
	42.5	1,126.2	8,364.67	1,434.65	2,073,709	37,130	38.019
	45.0	1,189.7	8,283.82	1,515.54	2,180,879	39,048	37.934
	47.5	1,252.9	8,203.35	1,596.05	2,286,514	40,938	37.849
	50.0	1,315.7	8,123.28	1,676.05	2,390,443	42,801	37.765
	55.0	1,440.5	7,964.32	1,835.03	2,593,973	46,445	37.597
1120	60.0	1,564.1	7,806.92	1,992.48	2,791,587	49,982	37.430
	8.0	219.4	9,572.55	279.49	432,025	7,714	39.316
	9.5	260.2	9,520.60	331.46	510,987	9,124	39.263
	10.0	273.7	9,503.31	348.66	537,024	9,591	39.246
	12.5	341.4	9,417.11	434.90	666,872	11,909	39.158
	12.7	346.8	9,410.23	441.78	677,179	12,093	39.151
	14.3	389.9	9,355.29	496.69	759,177	13,558	39.095
1124	55.0	1,444.6	8,011.84	1,840.25	2,616,031	46,713	37.703
	16.7	456.0	9,341.58	580.89	890,499	15,847	39.153
1126	18.3	499.0	9,286.84	635.67	971,707	17,290	39.097
	13.1	359.5	9,499.85	457.96	709,104	12,597	39.349
1135	17.5	482.3	9,503.31	614.39	959,303	16,904	39.514
1140	22.2	612.0	9,427.44	779.62	1,218,127	21,370	39.527
1143	9.5	265.6	9,922.52	338.34	543,422	9,507	40.076
	9.9	276.7	9,908.40	352.48	565,736	9,897	40.062
	10.3	287.7	9,894.29	366.50	587,827	10,286	40.048
	10.7	298.8	9,880.19	380.64	610,079	10,675	40.034
	11.1	309.9	9,866.11	394.78	632,300	11,062	40.020
	11.5	320.9	9,852.03	408.79	654,281	11,449	40.006
	11.9	332.0	9,837.96	422.93	676,439	11,834	39.992
	12.3	343.0	9,823.90	436.94	698,358	12,219	39.978
	12.7	354.0	9,809.85	450.96	720,262	12,603	39.964
	13.1	365.0	9,795.81	464.97	742,119	12,987	39.950

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1143	13.5	376.1	9,781.78	479.11	764,152	13,369	39.936
	14.3	398.1	9,753.75	507.13	807,711	14,131	39.908
	15.1	420.0	9,725.76	535.03	850,956	14,891	39.880
	15.9	442.0	9,697.82	563.06	894,285	15,646	39.852
	16.7	463.9	9,669.91	590.96	937,285	16,399	39.825
	17.5	485.7	9,642.04	618.73	979,957	17,148	39.797
	18.3	507.6	9,614.22	646.62	1,022,698	17,895	39.769
	19.1	529.4	9,586.43	674.39	1,065,128	18,637	39.741
	19.8	548.5	9,562.15	698.73	1,102,221	19,285	39.717
	20.2	559.3	9,548.29	712.48	1,123,125	19,654	39.703
	20.6	570.2	9,534.44	726.37	1,144,220	20,022	39.689
	21.4	591.9	9,506.77	754.01	1,186,100	20,755	39.661
	22.2	613.6	9,479.13	781.66	1,227,876	21,486	39.634
	23.0	635.3	9,451.54	809.30	1,269,518	22,213	39.606
	23.8	656.9	9,423.99	836.82	1,310,852	22,937	39.578
	24.6	678.5	9,396.48	864.33	1,352,054	23,658	39.550
	25.4	700.1	9,369.01	891.85	1,393,153	24,376	39.523
	26.4	727.0	9,334.73	926.11	1,444,144	25,269	39.488
	27.0	743.1	9,314.19	946.62	1,474,580	25,802	39.468
	28.6	786.0	9,259.54	1,001.27	1,555,355	27,216	39.412
	29.4	807.4	9,232.27	1,028.54	1,595,483	27,918	39.385
	30.2	828.8	9,205.04	1,055.80	1,635,482	28,617	39.357
	31.8	871.5	9,150.70	1,110.19	1,714,934	30,006	39.302
	33.3	911.3	9,099.91	1,160.89	1,788,559	31,297	39.251
	34.9	953.7	9,045.88	1,214.90	1,866,547	32,662	39.196
	36.5	996.0	8,992.02	1,268.79	1,943,905	34,015	39.141
	38.1	1,038.2	8,938.31	1,322.55	2,020,618	35,355	39.087
	40.0	1,088.1	8,874.75	1,386.11	2,110,715	36,932	39.022
1145	23.5	650.0	9,468.78	828.03	1,302,403	22,748	39.659
1168	5.9	169.1	10,499.18	215.41	363,642	6,226	41.086
	6.3	180.5	10,484.66	229.94	387,905	6,642	41.072
	9.1	260.1	10,383.27	331.34	556,292	9,525	40.974
	9.5	271.4	10,368.83	345.73	580,054	9,933	40.960
	9.9	282.8	10,354.39	360.25	604,001	10,341	40.946
	10.3	294.1	10,339.97	374.65	627,715	10,748	40.932
	10.7	305.4	10,325.55	389.04	651,378	11,153	40.918
	11.1	316.7	10,311.15	403.44	675,026	11,558	40.904
	11.5	328.0	10,296.76	417.83	698,625	11,963	40.890
	11.9	339.3	10,282.37	432.23	722,207	12,366	40.876

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1168	12.3	350.6	10,268.00	446.62	745,740	12,768	40.862
	12.5	356.2	10,260.82	453.76	757,403	12,969	40.855
	12.7	361.8	10,253.64	460.89	769,041	13,170	40.848
	13.1	373.1	10,239.28	475.29	792,526	13,571	40.834
	13.5	384.4	10,224.94	489.68	815,961	13,971	40.820
	14.3	406.9	10,196.28	518.34	862,536	14,768	40.792
	15.1	429.3	10,167.67	546.88	908,782	15,562	40.764
	15.9	451.8	10,139.09	575.54	955,099	16,353	40.736
	16.7	474.2	10,110.56	604.08	1,001,089	17,140	40.708
	17.5	496.5	10,082.06	632.48	1,046,720	17,924	40.681
	18.3	518.9	10,053.61	661.02	1,092,455	18,705	40.653
	19.1	541.2	10,025.19	689.43	1,137,849	19,483	40.625
	19.8	560.7	10,000.36	714.27	1,177,434	20,160	40.601
	20.6	582.9	9,972.02	742.55	1,222,378	20,931	40.573
	21.4	605.1	9,943.72	770.83	1,267,196	21,699	40.545
	22.2	627.3	9,915.46	799.11	1,311,890	22,464	40.517
	23.0	649.5	9,887.24	827.39	1,356,458	23,226	40.490
	23.8	671.6	9,859.06	855.54	1,400,690	23,984	40.462
	25.4	715.7	9,802.83	911.72	1,488,588	25,491	40.406
	27.0	759.8	9,746.75	967.90	1,575,995	26,984	40.351
	28.6	803.7	9,690.84	1,023.82	1,662,492	28,465	40.296
	29.4	825.6	9,662.94	1,051.72	1,705,462	29,201	40.269
	30.2	847.4	9,635.08	1,079.49	1,748,100	29,934	40.241
	31.8	891.1	9,579.49	1,135.16	1,833,229	31,389	40.186
	33.3	931.9	9,527.52	1,187.13	1,912,248	32,742	40.134
	34.9	975.3	9,472.23	1,242.42	1,995,845	34,174	40.080
	36.5	1,018.5	9,417.11	1,297.45	2,078,555	35,592	40.025
	38.1	1,061.7	9,362.15	1,352.48	2,160,799	36,999	39.970
	40.0	1,112.7	9,297.10	1,417.45	2,257,261	38,653	39.905
	42.5	1,179.7	9,211.84	1,502.80	2,382,983	40,803	39.820
	45.0	1,246.3	9,126.98	1,587.64	2,506,792	42,924	39.735
	47.5	1,312.6	9,042.51	1,672.10	2,628,910	45,015	39.651
	50.0	1,378.6	8,958.43	1,756.18	2,749,352	47,077	39.566
	52.5	1,444.3	8,874.75	1,839.87	2,868,119	49,111	39.482
	55.0	1,509.7	8,791.46	1,923.18	2,985,242	51,116	39.398
	57.5	1,574.8	8,708.56	2,006.11	3,100,735	53,093	39.314
	60.0	1,639.5	8,626.05	2,088.54	3,214,430	55,041	39.231
	62.5	1,704.0	8,543.94	2,170.70	3,326,697	56,963	39.147
	163.0	4,040.0	5,568.19	5,146.50	6,668,539	114,185	35.996
1194	10.3	300.7	10,813.88	383.06	670,954	11,238	41.851

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Technical data of tubes

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1194	10.7	312.3	10,799.14	397.83	696,358	11,662	41.837
	11.1	323.8	10,784.41	412.48	721,518	12,086	41.823
	11.5	335.4	10,769.69	427.26	746,871	12,509	41.809
	11.9	346.9	10,754.98	441.91	771,963	12,931	41.795
	12.3	358.5	10,740.28	456.69	797,247	13,352	41.781
	12.7	370.0	10,725.59	471.34	822,271	13,773	41.767
	13.1	381.5	10,710.91	485.99	847,261	14,192	41.753
	13.5	393.0	10,696.24	500.64	872,217	14,611	41.739
	14.3	416.0	10,666.93	529.94	922,027	15,445	41.711
	15.1	439.0	10,637.66	559.24	971,703	16,277	41.683
	15.9	462.0	10,608.43	588.54	1,021,244	17,104	41.655
	16.7	484.9	10,579.24	617.71	1,070,425	17,929	41.628
	17.5	507.8	10,550.10	646.88	1,119,473	18,750	41.600
	18.3	530.6	10,520.99	675.92	1,168,163	19,567	41.572
	19.1	553.4	10,491.92	704.97	1,216,739	20,382	41.544
	19.8	573.4	10,466.52	730.45	1,259,239	21,091	41.520
	20.6	596.1	10,437.52	759.36	1,307,325	21,899	41.492
	21.4	618.9	10,408.57	788.41	1,355,522	22,704	41.464
	22.2	641.6	10,379.66	817.32	1,403,347	23,505	41.436
	23.0	664.2	10,350.79	846.11	1,450,836	24,303	41.409
	23.8	686.9	10,321.95	875.03	1,498,417	25,097	41.381
	24.6	709.5	10,293.16	903.82	1,545,647	25,888	41.353
	25.4	732.0	10,264.41	932.48	1,592,526	26,676	41.326
	27.0	777.1	10,207.03	989.94	1,686,138	28,242	41.270
	28.6	822.0	10,149.80	1,047.13	1,778,780	29,795	41.215
	29.4	844.4	10,121.25	1,075.67	1,824,817	30,566	41.187
	30.2	866.8	10,092.74	1,104.20	1,870,711	31,334	41.160
	31.8	911.5	10,035.84	1,161.15	1,961,937	32,861	41.105
	33.3	953.2	9,982.64	1,214.27	2,046,551	34,281	41.053
	34.9	997.6	9,926.05	1,270.83	2,136,155	35,782	40.998
	36.5	1,041.9	9,869.63	1,327.26	2,225,049	37,271	40.944
	38.1	1,086.1	9,813.36	1,383.57	2,313,254	38,748	40.889
	40.0	1,138.4	9,746.75	1,450.19	2,416,952	40,484	40.824
	42.5	1,206.9	9,659.45	1,537.45	2,551,703	42,742	40.739
	45.0	1,275.1	9,572.55	1,624.33	2,684,664	44,970	40.654
	47.5	1,343.1	9,486.04	1,710.96	2,816,066	47,168	40.569
	50.0	1,410.7	9,399.92	1,797.07	2,945,479	49,336	40.485
	60.0	1,678.0	9,059.37	2,137.58	3,445,661	57,715	40.149
	62.5	1,744.1	8,975.22	2,221.78	3,566,508	59,738	40.065
1200	7.1	208.9	11,043.64	266.11	473,364	7,889	42.176

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1200	7.5	220.6	11,028.75	281.02	499,553	8,325	42.162
	7.9	232.3	11,013.86	295.92	525,689	8,760	42.148
	8.3	243.9	10,998.99	310.70	551,577	9,194	42.133
	8.7	255.6	10,984.12	325.61	577,661	9,628	42.119
	9.1	267.3	10,969.26	340.51	603,693	10,060	42.105
	9.5	278.9	10,954.42	355.29	629,477	10,492	42.091
	9.9	290.6	10,939.58	370.19	655,438	10,923	42.077
	10.3	302.2	10,924.76	384.97	681,153	11,353	42.063
	10.7	313.8	10,909.94	399.75	706,833	11,782	42.049
	11.1	325.5	10,895.13	414.65	732,690	12,210	42.035
	11.5	337.1	10,880.34	429.43	758,301	12,637	42.021
	11.9	348.7	10,865.55	444.20	783,859	13,063	42.007
	12.0	351.6	10,861.86	447.90	790,257	13,170	42.004
	12.3	360.3	10,850.78	458.98	809,401	13,489	41.993
	12.7	371.9	10,836.01	473.76	834,909	13,914	41.979
	13.1	383.5	10,821.26	488.54	860,382	14,338	41.965
	13.5	395.0	10,806.51	503.18	885,574	14,761	41.951
	14.3	418.2	10,777.05	532.74	936,350	15,604	41.923
	15.1	441.3	10,747.63	562.17	986,760	16,444	41.895
	15.9	464.3	10,718.25	591.46	1,036,789	17,280	41.868
	16.7	487.3	10,688.91	620.76	1,086,701	18,113	41.840
	17.5	510.3	10,659.61	650.06	1,136,478	18,943	41.812
	18.3	533.3	10,630.35	679.36	1,186,120	19,769	41.784
	19.1	556.3	10,601.13	708.66	1,235,628	20,592	41.756
	19.8	576.3	10,575.60	734.14	1,278,564	21,309	41.732
	20.6	599.2	10,546.45	763.31	1,327,595	22,125	41.704
	21.4	622.0	10,517.35	792.36	1,376,286	22,939	41.676
	22.2	644.8	10,488.29	821.40	1,424,827	23,748	41.648
	23.0	667.6	10,459.26	850.45	1,473,254	24,555	41.621
	23.8	690.4	10,430.28	879.49	1,521,532	25,358	41.593
	24.6	713.1	10,401.34	908.41	1,569,472	26,157	41.565
	25.4	735.8	10,372.44	937.32	1,617,264	26,954	41.538
	27.0	781.1	10,314.75	995.03	1,712,270	28,536	41.482
	28.6	826.2	10,257.23	1,052.48	1,806,313	30,106	41.427
	29.4	848.8	10,228.53	1,081.27	1,853,255	30,886	41.400
	30.2	871.3	10,199.86	1,109.94	1,899,862	31,662	41.372
	31.8	916.2	10,142.66	1,167.13	1,992,441	33,205	41.317
	33.3	958.1	10,089.18	1,220.51	2,078,373	34,641	41.265
	34.9	1,002.8	10,032.29	1,277.45	2,169,551	36,159	41.210
	36.5	1,047.3	9,975.56	1,334.14	2,259,807	37,664	41.156
	38.1	1,091.7	9,918.99	1,390.70	2,349,350	39,157	41.101



Technical data of tubes

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1200	40.0	1,144.3	9,852.03	1,457.71	2,454,784	40,913	41.036
	42.5	1,213.2	9,764.26	1,545.48	2,591,794	43,196	40.951
	45.0	1,281.8	9,676.88	1,632.87	2,726,995	45,449	40.866
	47.5	1,350.1	9,589.90	1,719.87	2,860,386	47,672	40.781
	50.0	1,418.1	9,503.31	1,806.50	2,992,016	49,865	40.697
	52.5	1,485.7	9,417.11	1,892.61	3,121,653	52,028	40.612
	55.0	1,553.1	9,331.31	1,978.47	3,249,761	54,161	40.528
	57.5	1,620.1	9,245.90	2,063.82	3,375,926	56,266	40.444
	60.0	1,686.9	9,160.88	2,148.92	3,500,591	58,341	40.360
1206	26.8	779.4	10,430.28	992.87	1,726,639	28,633	41.701
	27.0	785.1	10,423.04	1,000.13	1,738,689	28,832	41.694
1212	29.5	860.3	10,441.15	1,095.92	1,916,732	31,629	41.820
1216	16.0	473.5	11,010.14	603.18	1,085,917	17,861	42.430
	30.9	903.1	10,462.89	1,150.45	2,021,077	33,241	41.913
	31.0	906.0	10,459.26	1,154.14	2,027,227	33,340	41.910
	34.6	1,008.1	10,329.16	1,284.20	2,242,379	36,880	41.786
1220	5.6	167.7	11,476.21	213.63	393,827	6,457	42.935
	5.9	176.7	11,464.82	225.10	414,767	6,798	42.925
	6.3	188.6	11,449.64	240.25	442,393	7,251	42.911
	6.4	191.6	11,445.85	244.08	449,371	7,365	42.907
	6.7	200.5	11,434.47	255.41	470,000	7,704	42.897
	7.1	212.4	11,419.32	270.57	497,571	8,156	42.883
	7.5	224.3	11,404.17	285.73	525,105	8,607	42.869
	7.9	236.2	11,389.03	300.89	552,603	9,057	42.855
	8.0	239.1	11,385.25	304.59	559,307	9,170	42.851
	8.3	248.0	11,373.90	315.92	579,826	9,506	42.841
	8.7	259.9	11,358.79	331.08	607,252	9,955	42.827
	8.8	262.9	11,355.01	334.90	614,158	10,067	42.823
	9.0	268.8	11,347.45	342.42	627,742	10,290	42.816
	9.1	271.8	11,343.68	346.24	634,641	10,402	42.812
	9.5	283.6	11,328.58	361.27	661,757	10,849	42.798
	9.9	295.5	11,313.49	376.43	689,074	11,294	42.784
	10.0	298.4	11,309.72	380.13	695,733	11,406	42.781
	10.3	307.3	11,298.42	391.46	716,117	11,739	42.770
	10.7	319.1	11,283.35	406.50	743,143	12,183	42.756
	11.0	328.0	11,272.06	417.83	763,481	12,515	42.746
	11.1	330.9	11,268.29	421.53	770,116	12,626	42.742

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1220	11.5	342.7	11,253.25	436.56	797,052	13,068	42.728
	11.9	354.6	11,238.21	451.72	824,190	13,509	42.714
	12.0	357.5	11,234.45	455.41	830,786	13,619	42.711
	12.3	366.3	11,223.18	466.62	850,818	13,949	42.700
	12.5	372.2	11,215.67	474.14	864,246	14,169	42.693
	12.6	375.2	11,211.92	477.96	871,066	14,279	42.690
	12.7	378.1	11,208.17	481.66	877,666	14,389	42.686
	13.0	387.0	11,196.91	492.99	897,869	14,718	42.676
	13.1	389.9	11,193.16	496.69	904,460	14,827	42.672
	13.5	401.7	11,178.16	511.72	931,218	15,265	42.658
	13.7	407.6	11,170.67	519.24	944,593	15,484	42.651
	13.9	413.5	11,163.18	526.75	957,941	15,702	42.644
	14.0	416.4	11,159.43	530.45	964,512	15,811	42.641
	14.2	422.3	11,151.94	537.96	977,847	16,029	42.634
	14.3	425.2	11,148.20	541.66	984,411	16,138	42.630
	14.7	437.0	11,133.23	556.69	1,011,063	16,573	42.616
	14.9	442.8	11,125.75	564.08	1,024,149	16,790	42.609
	15.0	445.8	11,122.01	567.90	1,030,916	16,899	42.606
	15.1	448.7	11,118.28	571.59	1,037,445	17,007	42.603
	15.2	451.6	11,114.54	575.29	1,043,989	17,115	42.599
	15.3	454.6	11,110.80	579.11	1,050,749	17,224	42.596
	15.4	457.5	11,107.07	582.80	1,057,271	17,332	42.592
	15.5	460.4	11,103.33	586.50	1,063,809	17,440	42.589
	15.9	472.2	11,088.39	601.53	1,090,356	17,873	42.575
	16.0	475.1	11,084.66	605.22	1,096,864	17,981	42.571
	16.3	483.9	11,073.47	616.43	1,116,632	18,304	42.561
	16.7	495.6	11,058.55	631.34	1,142,891	18,735	42.547
	17.1	507.3	11,043.64	646.24	1,169,097	19,165	42.533
	17.5	519.0	11,028.75	661.15	1,195,287	19,594	42.519
	17.9	530.7	11,013.86	676.05	1,221,424	20,022	42.505
	18.0	533.6	11,010.14	679.75	1,227,907	20,129	42.501
	18.3	542.3	10,998.99	690.83	1,247,309	20,449	42.491
	18.7	554.0	10,984.12	705.73	1,273,376	20,875	42.477
	18.9	559.8	10,976.69	713.12	1,286,289	21,088	42.470
	19.0	562.8	10,972.98	716.94	1,292,967	21,194	42.467
	19.1	565.7	10,969.26	720.64	1,299,427	21,301	42.463
	19.5	577.3	10,954.42	735.41	1,325,191	21,725	42.449
	19.8	586.1	10,943.29	746.62	1,344,730	22,043	42.439
	20.0	591.9	10,935.87	754.01	1,357,595	22,255	42.432
	20.2	597.7	10,928.46	761.40	1,370,452	22,466	42.425
	20.6	609.3	10,913.64	776.18	1,396,139	22,889	42.411



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1220	21.0	621.0	10,898.84	791.08	1,422,008	23,310	42.397
	21.2	626.8	10,891.44	798.47	1,434,822	23,520	42.390
	21.4	632.6	10,884.04	805.86	1,447,627	23,730	42.383
	21.8	644.2	10,869.25	820.64	1,473,211	24,150	42.369
	22.0	650.0	10,861.86	828.03	1,485,991	24,360	42.362
	22.2	655.8	10,854.47	835.41	1,498,744	24,569	42.355
	22.6	667.4	10,839.70	850.19	1,524,261	24,987	42.342
	22.7	670.3	10,836.01	853.89	1,530,643	25,091	42.338
	23.0	679.0	10,824.95	864.97	1,549,743	25,404	42.328
	23.4	690.5	10,810.20	879.62	1,574,959	25,820	42.314
	23.8	702.1	10,795.46	894.39	1,600,356	26,236	42.300
	24.6	725.2	10,766.01	923.82	1,650,851	27,064	42.272
	24.7	728.1	10,762.34	927.52	1,657,191	27,167	42.269
	25.0	736.8	10,751.31	938.60	1,676,164	27,477	42.258
	25.4	748.3	10,736.61	953.25	1,701,211	27,889	42.245
	25.8	759.8	10,721.92	967.90	1,726,225	28,300	42.231
	26.2	771.4	10,707.24	982.68	1,751,437	28,710	42.217
	26.6	782.9	10,692.58	997.32	1,776,365	29,120	42.203
	27.0	794.4	10,677.92	1,011.97	1,801,279	29,528	42.189
	27.1	797.3	10,674.26	1,015.67	1,807,569	29,630	42.186
	27.5	808.8	10,659.61	1,030.32	1,832,440	30,038	42.172
	28.0	823.1	10,641.32	1,048.54	1,863,318	30,546	42.155
	28.6	840.3	10,619.39	1,070.45	1,900,386	31,154	42.134
	29.0	851.8	10,604.78	1,085.10	1,925,133	31,559	42.120
	29.4	863.3	10,590.19	1,099.75	1,949,847	31,963	42.106
	30.0	880.4	10,568.31	1,121.53	1,986,510	32,566	42.086
	30.2	886.2	10,561.02	1,128.92	1,998,945	32,767	42.079
	30.9	906.2	10,535.54	1,154.39	2,041,703	33,469	42.055
	31.8	931.8	10,502.81	1,187.01	2,096,305	34,367	42.024
	32.2	943.3	10,488.29	1,201.66	2,120,788	34,764	42.010
	32.6	954.6	10,473.77	1,216.05	2,144,780	35,161	41.996
	33.3	974.6	10,448.39	1,241.53	2,187,213	35,854	41.972
	34.6	1,011.5	10,401.34	1,288.54	2,265,205	37,134	41.928
	34.9	1,020.0	10,390.50	1,299.36	2,283,105	37,428	41.917
	36.0	1,051.2	10,350.79	1,339.11	2,348,719	38,503	41.880
	36.5	1,065.3	10,332.76	1,357.07	2,378,273	38,989	41.862
	38.1	1,110.5	10,275.19	1,414.65	2,472,701	40,537	41.808
	39.7	1,155.6	10,217.77	1,472.10	2,566,393	42,072	41.753
	40.0	1,164.0	10,207.03	1,482.80	2,583,779	42,358	41.743
	42.5	1,234.2	10,117.69	1,572.23	2,728,433	44,727	41.658
	45.0	1,304.0	10,028.74	1,661.15	2,870,986	47,065	41.572

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1220	47.5	1,373.5	9,940.19	1,749.68	3,011,664	49,371	41.488
	49.0	1,415.1	9,887.24	1,802.68	3,095,296	50,741	41.437
	50.0	1,442.7	9,852.03	1,837.83	3,150,500	51,648	41.403
	52.5	1,511.6	9,764.26	1,925.61	3,287,528	53,894	41.319
	55.0	1,580.2	9,676.88	2,012.99	3,422,712	56,110	41.234
	57.5	1,648.5	9,589.90	2,100.00	3,556,120	58,296	41.150
	60.0	1,716.5	9,503.31	2,186.62	3,687,735	60,453	41.067
	65.0	1,851.5	9,331.31	2,358.60	3,945,496	64,679	40.900
1222	18.9	560.8	11,013.86	714.39	1,292,874	21,159	42.541
	34.6	1,013.2	10,437.52	1,290.70	2,276,659	37,261	41.998
	36.0	1,053.0	10,386.88	1,341.40	2,360,683	38,635	41.950
1226	15.9	474.5	11,200.66	604.46	1,106,611	18,052	42.787
	16.3	486.3	11,185.66	619.49	1,133,388	18,488	42.773
	16.7	498.1	11,170.67	634.52	1,160,129	18,924	42.759
	17.5	521.6	11,140.71	664.46	1,213,286	19,791	42.731
	18.3	545.1	11,110.80	694.39	1,266,285	20,655	42.703
	21.0	624.1	11,010.14	795.03	1,443,443	23,546	42.609
	21.4	635.7	10,995.27	809.81	1,469,318	23,971	42.595
	21.8	647.4	10,980.40	824.71	1,495,378	24,395	42.581
1232	22.2	659.1	10,965.55	839.62	1,521,420	24,818	42.567
	17.5	524.2	11,253.25	667.77	1,231,465	19,989	42.943
	19.1	571.3	11,193.16	727.77	1,338,634	21,732	42.887
	19.8	591.9	11,166.92	754.01	1,385,325	22,490	42.863
	20.6	615.4	11,136.97	783.95	1,438,464	23,353	42.835
	21.4	638.9	11,107.07	813.89	1,491,464	24,212	42.807
	21.8	650.6	11,092.13	828.79	1,517,783	24,640	42.793
	22.2	662.4	11,077.20	843.82	1,544,305	25,068	42.780
	22.6	674.1	11,062.28	858.73	1,570,573	25,495	42.766
	23.0	685.8	11,047.37	873.63	1,596,788	25,921	42.752
	23.4	697.5	11,032.47	888.54	1,622,987	26,346	42.738
	23.8	709.2	11,017.58	903.44	1,649,132	26,770	42.724
	24.2	720.8	11,002.70	918.22	1,675,024	27,193	42.710
	24.6	732.5	10,987.84	933.12	1,701,101	27,615	42.696
	25.0	744.2	10,972.98	948.03	1,727,161	28,037	42.683
	25.4	755.8	10,958.13	962.80	1,752,932	28,457	42.669
	25.8	767.5	10,943.29	977.71	1,778,924	28,877	42.655
	26.2	779.1	10,928.46	992.48	1,804,627	29,296	42.641
	26.6	790.8	10,913.64	1,007.39	1,830,550	29,714	42.627

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1232	27.0	802.4	10,898.84	1,022.17	1,856,202	30,132	42.613
	27.4	814.0	10,884.04	1,036.94	1,881,802	30,548	42.600
	27.8	825.6	10,869.25	1,051.72	1,907,387	30,964	42.586
	39.5	1,161.7	10,441.15	1,479.87	2,633,459	42,749	42.184
1235	41.0	1,207.3	10,441.15	1,537.96	2,743,946	44,436	42.239
1236	25.0	746.6	11,047.37	951.08	1,744,217	28,225	42.824
	25.9	772.9	11,013.86	984.59	1,803,046	29,177	42.793
	41.5	1,222.5	10,441.15	1,557.32	2,780,892	44,999	42.257
1238	23.0	689.2	11,159.43	877.96	1,620,664	26,181	42.964
	23.4	700.9	11,144.46	892.87	1,647,123	26,610	42.950
	23.8	712.7	11,129.49	907.90	1,673,768	27,039	42.936
	24.2	724.4	11,114.54	922.80	1,700,139	27,466	42.922
	24.6	736.2	11,099.59	937.83	1,726,715	27,893	42.908
	25.4	759.6	11,069.74	967.64	1,779,301	28,744	42.881
	25.8	771.3	11,054.82	982.55	1,805,552	29,168	42.867
	26.2	783.0	11,039.92	997.45	1,831,749	29,592	42.853
	26.6	794.7	11,025.03	1,012.36	1,857,931	30,014	42.839
	27.0	806.4	11,010.14	1,027.26	1,884,059	30,436	42.825
	31.8	946.0	10,832.32	1,205.10	2,193,176	35,429	42.660
	41.0	1,210.3	10,495.55	1,541.78	2,764,585	44,663	42.345
1254	6.3	193.9	12,103.56	247.01	480,680	7,664	44.113
	6.7	206.1	12,087.96	262.55	510,595	8,143	44.099
	7.1	218.3	12,072.38	278.09	540,472	8,621	44.085
	7.5	230.6	12,056.80	293.76	570,562	9,098	44.071
	7.9	242.8	12,041.24	309.30	600,362	9,574	44.057
	8.3	255.0	12,025.68	324.84	630,124	10,049	44.043
	8.7	267.2	12,010.14	340.38	659,847	10,523	44.029
	9.1	279.4	11,994.60	355.92	689,532	10,997	44.015
	9.5	291.6	11,979.08	371.46	719,179	11,469	44.000
	9.9	303.8	11,963.56	387.01	748,808	11,940	43.986
	10.3	315.9	11,948.06	402.42	778,127	12,411	43.972
	10.7	328.1	11,932.57	417.96	807,660	12,881	43.958
	11.1	340.2	11,917.08	433.38	836,924	13,349	43.944
	11.5	352.4	11,901.61	448.92	866,381	13,817	43.930
	11.9	364.5	11,886.14	464.33	895,550	14,284	43.916
	12.3	376.7	11,870.69	479.87	924,932	14,750	43.902
	12.7	388.8	11,855.25	495.29	954,044	15,215	43.888

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1254	13.1	400.9	11,839.81	510.70	983,100	15,679	43.874
	13.5	413.0	11,824.39	526.11	1,012,119	16,142	43.860
	14.3	437.2	11,793.57	556.94	1,070,063	17,066	43.832
	15.1	461.4	11,762.79	587.77	1,127,858	17,986	43.804
	15.9	485.5	11,732.05	618.47	1,185,255	18,903	43.777
	16.7	509.6	11,701.36	649.17	1,242,504	19,816	43.749
	17.5	533.7	11,670.70	679.87	1,299,604	20,725	43.721
	18.3	557.7	11,640.08	710.45	1,356,329	21,631	43.693
	19.1	581.7	11,609.51	741.02	1,412,887	22,533	43.665
	19.8	602.7	11,582.79	767.77	1,462,258	23,320	43.641
	20.6	626.6	11,552.28	798.22	1,518,314	24,216	43.613
	21.4	650.5	11,521.82	828.66	1,574,206	25,108	43.585
	22.2	674.4	11,491.40	859.11	1,629,972	25,996	43.557
	23.0	698.3	11,461.02	889.55	1,685,575	26,881	43.530
	23.8	722.1	11,430.68	919.87	1,740,806	27,763	43.502
	24.6	745.9	11,400.38	950.19	1,795,894	28,641	43.474
	25.4	769.6	11,370.12	980.38	1,850,594	29,515	43.446
	27.0	817.0	11,309.72	1,040.76	1,959,566	31,254	43.391
	28.6	864.3	11,249.49	1,101.02	2,067,747	32,978	43.336
	29.4	887.9	11,219.43	1,131.08	2,121,495	33,836	43.308
	30.2	911.5	11,189.41	1,161.15	2,175,122	34,689	43.281
	31.8	958.5	11,129.49	1,221.02	2,281,452	36,387	43.225
	33.3	1,002.5	11,073.47	1,277.07	2,380,486	37,965	43.174
	34.9	1,049.3	11,013.86	1,336.69	2,485,279	39,636	43.119
	36.5	1,095.9	10,954.42	1,396.05	2,589,042	41,294	43.064
	38.1	1,142.5	10,895.13	1,455.41	2,692,262	42,938	43.009
	40.0	1,197.6	10,824.95	1,525.61	2,813,599	44,873	42.944
1270	5.1	159.1	12,465.01	202.68	405,359	6,383	44.721
	5.6	174.6	12,445.23	222.42	444,489	7,001	44.703
	5.9	183.9	12,433.37	234.27	467,950	7,370	44.693
	6.4	199.4	12,413.61	254.01	506,981	7,986	44.675
	6.7	208.7	12,401.77	265.86	530,381	8,354	44.665
	7.1	221.1	12,385.98	281.66	561,548	8,844	44.650
	7.5	233.5	12,370.21	297.45	592,655	9,334	44.636
	7.9	245.9	12,354.44	313.25	623,743	9,822	44.622
	8.3	258.3	12,338.69	329.04	654,771	10,310	44.608
	8.7	270.6	12,322.94	344.71	685,522	10,796	44.594
	9.1	283.0	12,307.20	360.51	716,492	11,282	44.580
	9.5	295.3	12,291.48	376.18	747,164	11,767	44.566
	9.9	307.7	12,275.76	391.97	778,036	12,251	44.552

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1270	10.3	320.0	12,260.06	407.64	808,630	12,734	44.538
	10.7	332.3	12,244.36	423.31	839,186	13,216	44.524
	11.1	344.6	12,228.68	438.98	869,703	13,697	44.510
	11.5	356.9	12,213.00	454.65	900,181	14,177	44.496
	11.9	369.2	12,197.34	470.32	930,621	14,656	44.482
	12.3	381.5	12,181.68	485.99	961,021	15,134	44.468
	12.7	393.8	12,166.04	501.66	991,383	15,612	44.454
	13.1	406.1	12,150.40	517.32	1,021,687	16,088	44.440
	13.5	418.3	12,134.78	532.87	1,051,735	16,564	44.426
	13.9	430.6	12,119.16	548.54	1,081,982	17,038	44.412
	14.3	442.8	12,103.56	564.08	1,111,934	17,512	44.398
	14.7	455.1	12,087.96	579.75	1,142,103	17,985	44.384
	15.1	467.3	12,072.38	595.29	1,171,979	18,457	44.370
	15.5	479.5	12,056.80	610.83	1,201,816	18,928	44.356
	15.9	491.8	12,041.24	626.50	1,231,871	19,398	44.342
	16.3	504.0	12,025.68	642.04	1,261,632	19,867	44.328
	16.7	516.2	12,010.14	657.58	1,291,355	20,335	44.314
	17.5	540.6	11,979.08	688.66	1,350,688	21,269	44.286
	18.0	555.8	11,959.69	708.03	1,387,587	21,851	44.269
	18.3	564.9	11,948.06	719.62	1,409,635	22,199	44.259
	19.1	589.2	11,917.08	750.57	1,468,411	23,125	44.231
	19.8	610.5	11,890.01	777.71	1,519,832	23,933	44.206
	20.6	634.7	11,859.11	808.54	1,578,093	24,853	44.178
	21.4	659.0	11,828.24	839.49	1,636,439	25,769	44.151
	22.2	683.2	11,797.42	870.32	1,694,402	26,682	44.123
	23.0	707.3	11,766.64	901.02	1,751,964	27,591	44.095
	23.8	731.5	11,735.89	931.85	1,809,631	28,496	44.067
	24.6	755.6	11,705.19	962.55	1,866,898	29,398	44.040
	25.4	779.6	11,674.53	993.12	1,923,766	30,296	44.012
	27.0	827.7	11,613.33	1,054.39	2,037,316	32,083	43.957
	28.6	875.6	11,552.28	1,115.41	2,149,802	33,855	43.901
	29.4	899.5	11,521.82	1,145.86	2,205,713	34,736	43.874
	30.2	923.4	11,491.40	1,176.31	2,261,480	35,613	43.846
	31.8	971.1	11,430.68	1,237.07	2,372,315	37,357	43.791
	33.3	1,015.6	11,373.90	1,293.76	2,475,182	38,980	43.739
	34.9	1,063.1	11,313.49	1,354.27	2,584,438	40,697	43.684
	38.1	1,157.5	11,193.16	1,474.52	2,799,799	44,091	43.575
	40.0	1,213.4	11,122.01	1,545.73	2,926,260	46,081	43.510
	42.5	1,286.6	11,028.75	1,638.98	3,090,630	48,670	43.424
	45.0	1,359.5	10,935.87	1,731.85	3,252,956	51,226	43.339
	47.5	1,432.1	10,843.39	1,824.33	3,413,236	53,751	43.254

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1270	50.0	1,504.4	10,751.31	1,916.43	3,571,507	56,243	43.169
	52.5	1,576.4	10,659.61	2,008.15	3,727,785	58,703	43.085
	55.0	1,648.0	10,568.31	2,099.36	3,881,848	61,132	43.000
	57.5	1,719.4	10,477.40	2,190.32	4,034,193	63,530	42.916
	60.0	1,790.5	10,386.88	2,280.89	4,184,578	65,896	42.832
	62.5	1,861.2	10,296.76	2,370.96	4,332,818	68,232	42.748
	65.0	1,931.7	10,207.03	2,460.76	4,479,352	70,538	42.665
	70.0	2,071.6	10,028.74	2,638.98	4,766,328	75,059	42.498
1300	12.7	403.2	12,759.61	513.63	1,064,051	16,369	45.515
	30.0	939.6	12,076.27	1,196.94	2,414,527	37,147	44.913
	40.0	1,243.0	11,689.86	1,583.44	3,145,504	48,390	44.570
1320	7.5	242.8	13,375.52	309.30	666,044	10,090	46.404
	7.9	255.6	13,359.12	325.61	700,741	10,618	46.390
	8.0	258.9	13,355.02	329.81	709,672	10,750	46.387
	8.3	268.5	13,342.74	342.04	735,654	11,146	46.376
	8.7	281.4	13,326.36	358.47	770,524	11,672	46.362
	9.1	294.2	13,310.00	374.78	805,094	12,198	46.348
	9.5	307.0	13,293.65	391.08	839,600	12,723	46.334
	9.8	316.7	13,281.39	403.44	865,742	13,115	46.323
	9.9	319.9	13,277.30	407.52	874,365	13,246	46.320
	10.0	323.1	13,273.22	411.59	882,964	13,377	46.316
	10.1	326.3	13,269.13	415.67	891,581	13,508	46.313
	10.3	332.7	13,260.97	423.82	908,787	13,769	46.306
	10.7	345.5	13,244.64	440.13	943,188	14,290	46.292
	11.0	355.1	13,232.41	452.36	968,956	14,681	46.281
	11.1	358.3	13,228.33	456.43	977,526	14,811	46.278
	11.5	371.1	13,212.03	472.74	1,011,844	15,331	46.264
	11.9	383.9	13,195.73	489.04	1,046,098	15,850	46.250
	12.0	387.1	13,191.66	493.12	1,054,665	15,979	46.246
	12.3	396.7	13,179.45	505.35	1,080,331	16,368	46.236
	12.5	403.1	13,171.31	513.50	1,097,422	16,626	46.229
	12.7	409.5	13,163.18	521.66	1,114,523	16,884	46.222
	13.0	419.0	13,150.98	533.76	1,139,856	17,271	46.211
	13.1	422.2	13,146.91	537.83	1,148,374	17,400	46.208
	13.5	435.0	13,130.66	554.14	1,182,482	17,915	46.194
	13.9	447.7	13,114.42	570.32	1,216,272	18,429	46.180
	14.3	460.5	13,098.18	586.62	1,250,276	18,942	46.166
	14.7	473.2	13,081.96	602.80	1,283,982	19,455	46.152
	15.1	485.9	13,065.75	618.98	1,317,647	19,966	46.138

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1320	15.5	498.7	13,049.54	635.29	1,351,548	20,476	46.124
	15.9	511.4	13,033.35	651.46	1,385,109	20,985	46.110
	16.3	524.1	13,017.17	667.64	1,418,651	21,493	46.096
	16.7	536.8	13,001.00	683.82	1,452,151	22,001	46.082
	17.5	562.1	12,968.68	716.05	1,518,753	23,013	46.054
	18.3	587.5	12,936.40	748.41	1,585,467	24,021	46.026
	19.1	612.8	12,904.17	780.64	1,651,742	25,025	45.998
	19.8	634.9	12,876.00	808.79	1,709,491	25,901	45.974
	20.0	641.2	12,867.95	816.82	1,725,941	26,150	45.967
	20.6	660.1	12,843.84	840.89	1,775,187	26,898	45.946
	21.4	685.4	12,811.72	873.12	1,840,995	27,892	45.918
	22.2	710.5	12,779.64	905.10	1,906,115	28,882	45.890
	23.0	735.7	12,747.60	937.20	1,971,328	29,868	45.863
	23.8	760.8	12,715.60	969.17	2,036,106	30,850	45.835
	24.6	785.9	12,683.64	1,001.15	2,100,746	31,829	45.807
	25.4	811.0	12,651.72	1,033.12	2,165,206	32,804	45.779
	27.0	861.0	12,588.01	1,096.82	2,293,146	34,743	45.724
	28.6	910.9	12,524.45	1,160.38	2,420,164	36,667	45.669
	29.4	935.8	12,492.73	1,192.10	2,483,312	37,624	45.641
	30.2	960.6	12,461.06	1,223.69	2,546,034	38,577	45.613
	31.0	985.5	12,429.42	1,255.41	2,608,871	39,527	45.586
	31.8	1,010.3	12,397.82	1,287.01	2,671,303	40,472	45.558
	33.3	1,056.7	12,338.69	1,346.11	2,787,635	42,236	45.506
	34.9	1,106.1	12,275.76	1,409.04	2,910,901	44,104	45.451
	36.5	1,155.4	12,213.00	1,471.85	3,033,307	45,957	45.396
	38.1	1,204.5	12,150.40	1,534.39	3,154,551	47,796	45.342
	40.0	1,262.7	12,076.27	1,608.54	3,297,507	49,961	45.276
	42.5	1,339.0	11,979.08	1,705.73	3,483,554	52,780	45.191
	45.0	1,415.0	11,882.28	1,802.55	3,667,401	55,565	45.106
	47.5	1,490.7	11,785.87	1,898.98	3,849,025	58,316	45.021
	50.0	1,566.0	11,689.86	1,994.90	4,028,202	61,034	44.936
	52.5	1,641.1	11,594.23	2,090.57	4,205,476	63,718	44.851
	55.0	1,715.9	11,499.00	2,185.86	4,380,600	66,370	44.766
	57.5	1,790.3	11,404.17	2,280.64	4,553,333	68,989	44.682
	60.0	1,864.4	11,309.72	2,375.03	4,723,935	71,575	44.598
1321	12.5	403.4	13,191.66	513.89	1,099,936	16,652	46.264
1359	9.5	316.2	14,102.60	402.80	916,995	13,494	47.713
	9.9	329.4	14,085.76	419.62	954,724	14,050	47.699
	10.3	342.6	14,068.94	436.43	992,386	14,604	47.685

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1359	10.7	355.8	14,052.13	453.25	1,030,026	15,158	47.671
	11.1	369.0	14,035.32	470.06	1,067,599	15,711	47.657
	11.5	382.2	14,018.53	486.88	1,105,150	16,262	47.643
	11.9	395.3	14,001.74	503.57	1,142,361	16,813	47.629
	12.3	408.5	13,984.97	520.38	1,179,800	17,363	47.615
	12.7	421.7	13,968.21	537.20	1,217,218	17,912	47.601
	13.1	434.8	13,951.45	553.89	1,254,297	18,460	47.587
	13.5	448.0	13,934.71	570.70	1,291,603	19,006	47.573
	14.3	474.2	13,901.25	604.08	1,365,540	20,097	47.545
	15.1	500.5	13,867.84	637.58	1,439,572	21,184	47.517
	15.9	526.7	13,834.46	670.96	1,513,158	22,267	47.489
	16.7	552.8	13,801.13	704.20	1,586,253	23,346	47.461
	17.5	579.0	13,767.83	737.58	1,659,489	24,421	47.433
	18.3	605.1	13,734.57	770.83	1,732,259	25,492	47.405
	19.1	631.2	13,701.36	804.08	1,804,855	26,559	47.377
	19.8	653.9	13,672.33	832.99	1,867,823	27,490	47.353
	20.6	680.0	13,639.19	866.24	1,940,095	28,550	47.325
	21.4	705.9	13,606.09	899.24	2,011,636	29,606	47.297
	22.2	731.9	13,573.03	932.36	2,083,273	30,658	47.269
	23.0	757.8	13,540.01	965.35	2,154,450	31,706	47.241
	23.8	783.7	13,507.03	998.34	2,225,456	32,751	47.213
	24.6	809.6	13,474.09	1,031.34	2,296,315	33,792	47.186
	25.4	835.4	13,441.19	1,064.20	2,366,693	34,829	47.158
	27.0	886.9	13,375.52	1,129.81	2,506,700	36,891	47.102
	28.6	938.4	13,310.00	1,195.41	2,646,013	38,939	47.047
	29.4	964.0	13,277.30	1,228.03	2,715,022	39,957	47.019
	30.2	989.7	13,244.64	1,260.76	2,784,107	40,971	46.992
	31.8	1,040.9	13,179.45	1,325.99	2,921,274	42,989	46.937
	33.3	1,088.7	13,118.48	1,386.88	3,048,691	44,867	46.885
	34.9	1,139.7	13,053.59	1,451.85	3,184,014	46,856	46.830
	36.5	1,190.5	12,988.87	1,516.56	3,318,117	48,829	46.775
	38.1	1,241.1	12,924.31	1,581.02	3,451,028	50,789	46.720
	40.0	1,301.2	12,847.85	1,657.58	3,608,056	53,096	46.655
1371	9.5	319.0	14,356.31	406.37	941,647	13,736	48.137
	9.9	332.3	14,339.33	423.31	980,329	14,302	48.123
	10.3	345.6	14,322.35	440.25	1,018,965	14,866	48.109
	10.7	359.0	14,305.39	457.32	1,057,856	15,430	48.095
	11.1	372.3	14,288.43	474.27	1,096,424	15,993	48.081
	11.5	385.6	14,271.49	491.21	1,134,924	16,555	48.067
	11.9	398.9	14,254.55	508.15	1,173,378	17,115	48.053

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1371	12.3	412.2	14,237.63	525.10	1,211,811	17,675	48.039
	12.7	425.4	14,220.72	541.91	1,249,875	18,234	48.025
	13.1	438.7	14,203.81	558.85	1,288,194	18,792	48.011
	13.5	452.0	14,186.92	575.80	1,326,491	19,349	47.997
	13.9	465.2	14,170.03	592.61	1,364,421	19,904	47.983
	14.3	478.5	14,153.16	609.55	1,402,605	20,459	47.969
	14.7	491.7	14,136.30	626.37	1,440,468	21,013	47.955
	15.1	504.9	14,119.44	643.18	1,478,263	21,566	47.941
	15.5	518.2	14,102.60	660.13	1,516,336	22,118	47.927
	15.9	531.4	14,085.76	676.94	1,554,042	22,669	47.913
	16.3	544.6	14,068.94	693.76	1,591,726	23,218	47.899
	16.7	557.8	14,052.13	710.57	1,629,344	23,767	47.885
	17.5	584.2	14,018.53	744.20	1,704,468	24,862	47.857
	18.0	600.6	13,997.55	765.10	1,751,059	25,544	47.840
	18.3	610.5	13,984.97	777.71	1,779,140	25,953	47.829
	19.1	636.8	13,951.45	811.21	1,853,613	27,040	47.801
	19.8	659.8	13,922.16	840.51	1,918,605	27,988	47.777
	20.6	686.1	13,888.72	874.01	1,992,748	29,068	47.749
	21.4	712.3	13,855.32	907.39	2,066,443	30,143	47.721
	22.2	738.5	13,821.96	940.76	2,139,940	31,215	47.693
	23.0	764.6	13,788.63	974.01	2,212,991	32,283	47.665
	23.8	790.7	13,755.35	1,007.26	2,285,869	33,347	47.638
	24.6	816.8	13,722.11	1,040.51	2,358,574	34,408	47.610
	25.4	842.9	13,688.91	1,073.76	2,431,106	35,464	47.582
	27.0	894.9	13,622.63	1,140.00	2,575,068	37,566	47.527
	28.6	946.8	13,556.51	1,206.11	2,718,053	39,652	47.471
	29.4	972.7	13,523.51	1,239.11	2,789,167	40,689	47.444
	30.2	998.6	13,490.56	1,272.10	2,860,089	41,723	47.416
	31.8	1,050.3	13,424.76	1,337.96	3,001,158	43,779	47.361
	33.3	1,098.6	13,363.22	1,399.49	3,132,322	45,692	47.309
	34.9	1,150.0	13,297.73	1,464.97	3,271,244	47,719	47.254
	36.5	1,201.3	13,232.41	1,530.32	3,409,213	49,731	47.199
	38.1	1,252.4	13,167.24	1,595.41	3,545,946	51,728	47.144
	40.0	1,313.0	13,090.07	1,672.61	3,707,259	54,080	47.079
	42.5	1,392.4	12,988.87	1,773.76	3,917,168	57,144	46.993
	45.0	1,471.6	12,888.07	1,874.65	4,124,936	60,172	46.908
	47.5	1,550.4	12,787.65	1,975.03	4,330,028	63,165	46.822
	50.0	1,628.9	12,687.63	2,075.03	4,532,750	66,123	46.737
	52.5	1,707.1	12,588.01	2,174.65	4,733,122	69,046	46.652
	55.0	1,785.0	12,488.77	2,273.89	4,931,161	71,935	46.568
	57.5	1,862.6	12,389.93	2,372.74	5,126,864	74,790	46.483

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1371	60.0	1,939.9	12,291.48	2,471.21	5,320,271	77,611	46.399
	62.5	2,016.9	12,193.42	2,569.30	5,511,401	80,398	46.315
1397	9.5	325.1	14,913.79	414.14	996,652	14,267	49.056
	9.9	338.7	14,896.48	431.46	1,037,739	14,855	49.042
	10.3	352.2	14,879.17	448.66	1,078,491	15,442	49.028
	10.7	365.8	14,861.88	465.99	1,119,507	16,028	49.014
	11.1	379.4	14,844.60	483.31	1,160,453	16,613	49.000
	11.5	392.9	14,827.33	500.51	1,201,063	17,197	48.986
	11.9	406.5	14,810.07	517.83	1,241,914	17,779	48.972
	12.3	420.0	14,792.82	535.03	1,282,431	18,361	48.958
	12.7	433.6	14,775.58	552.36	1,323,211	18,942	48.944
	13.1	447.1	14,758.35	569.55	1,363,610	19,522	48.930
	13.5	460.6	14,741.13	586.75	1,403,986	20,101	48.916
	14.3	487.6	14,706.71	621.15	1,484,598	21,255	48.888
	15.1	514.6	14,672.34	655.54	1,565,000	22,405	48.860
	15.9	541.6	14,638.01	689.94	1,645,240	23,552	48.832
	16.7	568.5	14,603.72	724.20	1,724,960	24,694	48.804
	17.5	595.4	14,569.47	758.47	1,804,520	25,833	48.776
	18.3	622.2	14,535.26	792.61	1,883,587	26,967	48.748
	19.1	649.1	14,501.09	826.88	1,962,779	28,097	48.720
	19.8	672.5	14,471.22	856.69	2,031,503	29,083	48.696
	20.6	699.3	14,437.13	890.83	2,110,044	30,206	48.668
	21.4	726.0	14,403.07	924.84	2,188,094	31,325	48.640
	22.2	752.7	14,369.06	958.85	2,265,964	32,440	48.612
	23.0	779.4	14,335.08	992.87	2,343,676	33,551	48.585
	23.8	806.0	14,301.15	1,026.75	2,420,877	34,658	48.557
	24.6	832.6	14,267.25	1,060.64	2,497,922	35,761	48.529
	25.4	859.2	14,233.40	1,094.52	2,574,765	36,860	48.501
	27.0	912.2	14,165.81	1,162.04	2,727,350	39,047	48.446
	28.6	965.2	14,098.39	1,229.55	2,879,201	41,218	48.390
	29.4	991.6	14,064.74	1,263.18	2,954,569	42,298	48.363
	30.2	1,018.0	14,031.12	1,296.82	3,029,784	43,374	48.335
	31.8	1,070.7	13,964.02	1,363.95	3,179,337	45,514	48.280
	33.3	1,119.9	13,901.25	1,426.62	3,318,294	47,507	48.228
	34.9	1,172.4	13,834.46	1,493.50	3,465,918	49,617	48.173
	36.5	1,224.7	13,767.83	1,560.13	3,612,272	51,712	48.118
	38.1	1,276.9	13,701.36	1,626.62	3,757,616	53,793	48.063
	40.0	1,338.7	13,622.63	1,705.35	3,928,805	56,243	47.998
	42.5	1,419.7	13,519.39	1,808.54	4,151,677	59,436	47.912
	45.0	1,500.4	13,416.54	1,911.34	4,372,021	62,592	47.826



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1397	47.5	1,580.9	13,314.09	2,013.89	4,590,175	65,712	47.741
	50.0	1,661.0	13,212.03	2,115.92	4,805,543	68,796	47.656
	55.0	1,820.3	13,009.08	2,318.85	5,228,975	74,859	47.486
	60.0	1,978.4	12,807.70	2,520.25	5,642,742	80,782	47.317
1415	18.3	630.4	14,922.45	803.06	1,958,569	27,680	49.385
	18.7	643.9	14,905.13	820.25	1,999,363	28,261	49.371
	18.9	650.7	14,896.48	828.92	2,019,925	28,551	49.364
1416	17.5	603.6	14,978.79	768.92	1,880,114	26,553	49.448
	18.3	630.8	14,944.11	803.57	1,962,620	27,720	49.420
	18.7	644.4	14,926.78	820.89	2,003,790	28,302	49.406
	19.1	658.0	14,909.46	838.22	2,044,937	28,883	49.392
	19.5	671.6	14,892.15	855.54	2,086,012	29,463	49.378
1420	8.0	278.6	15,481.88	354.90	884,503	12,457	49.922
	10.0	347.7	15,393.79	442.93	1,100,792	15,505	49.852
	10.3	358.1	15,380.60	456.18	1,133,242	15,960	49.841
	10.7	371.9	15,363.02	473.76	1,176,252	16,566	49.827
	11.0	382.2	15,349.84	486.88	1,208,316	17,020	49.817
	11.1	385.7	15,345.45	491.34	1,219,213	17,171	49.813
	12.0	416.7	15,305.95	530.83	1,315,535	18,528	49.782
	12.5	433.9	15,284.03	552.74	1,368,869	19,279	49.764
	14.0	485.4	15,218.36	618.34	1,528,097	21,524	49.712
	14.2	492.3	15,209.62	627.13	1,549,384	21,823	49.705
	14.3	495.7	15,205.25	631.46	1,559,862	21,972	49.701
	15.7	543.7	15,144.11	692.61	1,707,548	24,051	49.652
	16.0	554.0	15,131.03	705.73	1,739,159	24,495	49.642
	17.0	588.2	15,087.45	749.30	1,843,932	25,971	49.607
	18.0	622.4	15,043.94	792.87	1,948,407	27,440	49.572
	18.7	646.3	15,013.52	823.31	2,021,217	28,465	49.547
	19.0	656.5	15,000.50	836.31	2,052,265	28,903	49.537
	19.1	659.9	14,996.15	840.64	2,062,600	29,049	49.533
	19.5	673.5	14,978.79	857.96	2,103,911	29,633	49.519
	20.0	690.5	14,957.11	879.62	2,155,509	30,360	49.502
	21.6	744.9	14,887.82	948.92	2,320,096	32,678	49.446
	21.7	748.3	14,883.50	953.25	2,330,355	32,822	49.443
	22.3	768.7	14,857.56	979.24	2,391,870	33,687	49.422
	23.0	792.4	14,827.33	1,009.43	2,463,184	34,693	49.398
	24.0	826.3	14,784.20	1,052.61	2,564,937	36,124	49.363
	25.8	887.1	14,706.71	1,130.06	2,746,695	38,685	49.300

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1420	27.7	951.1	14,625.15	1,211.59	2,936,995	41,367	49.234
	30.0	1,028.4	14,526.71	1,310.06	3,165,432	44,583	49.155
	32.0	1,095.4	14,441.39	1,395.41	3,362,185	47,353	49.086
	33.4	1,142.2	14,381.81	1,455.03	3,498,938	49,278	49.037
	40.0	1,361.3	14,102.60	1,734.14	4,131,589	58,192	48.810
1422	6.4	223.4	15,596.77	284.59	712,885	10,028	50.049
	7.9	275.5	15,530.44	350.96	877,286	12,339	49.996
	8.0	279.0	15,526.02	355.41	888,285	12,492	49.993
	8.3	289.4	15,512.77	368.66	921,012	12,953	49.982
	9.1	317.1	15,477.47	403.95	1,008,042	14,177	49.954
	9.5	330.9	15,459.84	421.53	1,051,321	14,788	49.940
	9.9	344.8	15,442.21	439.24	1,094,874	15,397	49.926
	10.0	348.2	15,437.80	443.57	1,105,512	15,550	49.923
	10.3	358.6	15,424.59	456.82	1,138,055	16,006	49.912
	10.5	365.5	15,415.79	465.61	1,159,627	16,310	49.905
	10.7	372.4	15,406.99	474.39	1,181,161	16,613	49.898
	11.0	382.8	15,393.79	487.64	1,213,640	17,068	49.887
	11.1	386.2	15,389.39	491.97	1,224,244	17,220	49.884
	11.5	400.0	15,371.81	509.55	1,267,278	17,825	49.870
	11.7	406.9	15,363.02	518.34	1,288,777	18,128	49.863
	11.9	413.8	15,354.23	527.13	1,310,263	18,430	49.856
	12.0	417.3	15,349.84	531.59	1,321,163	18,581	49.852
	12.3	427.6	15,336.67	544.71	1,353,200	19,033	49.842
	12.5	434.5	15,327.89	553.50	1,374,649	19,334	49.835
	12.7	441.4	15,319.11	562.29	1,396,087	19,635	49.828
	13.0	451.7	15,305.95	575.41	1,428,060	20,087	49.817
	13.1	455.2	15,301.57	579.87	1,438,926	20,237	49.814
	13.5	468.9	15,284.03	597.32	1,481,394	20,837	49.800
	13.9	482.7	15,266.51	614.90	1,524,136	21,436	49.786
	14.3	496.4	15,248.99	632.36	1,566,533	22,034	49.772
	14.7	510.2	15,231.49	649.94	1,609,178	22,632	49.758
	15.1	523.9	15,213.99	667.39	1,651,453	23,228	49.744
	15.5	537.7	15,196.51	684.97	1,694,002	23,823	49.730
	15.9	551.4	15,179.03	702.42	1,736,180	24,417	49.716
	16.0	554.8	15,174.67	706.75	1,746,637	24,565	49.712
	16.3	565.1	15,161.57	719.87	1,778,311	25,010	49.702
	16.7	578.8	15,144.11	737.32	1,820,394	25,602	49.688
	17.0	589.1	15,131.03	750.45	1,852,030	26,046	49.677
	17.5	606.2	15,109.23	772.23	1,904,441	26,783	49.660
	18.0	623.3	15,087.45	794.01	1,956,778	27,519	49.642



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1422	18.2	630.1	15,078.75	802.68	1,977,589	27,813	49.636
	18.3	633.5	15,074.39	807.01	1,987,977	27,960	49.632
	18.7	647.2	15,056.99	824.46	2,029,821	28,547	49.618
	19.1	660.8	15,039.60	841.78	2,071,298	29,133	49.604
	19.5	674.5	15,022.21	859.24	2,113,071	29,718	49.590
	19.6	677.9	15,017.87	863.57	2,123,422	29,864	49.587
	19.7	681.3	15,013.52	867.90	2,133,768	30,010	49.583
	19.8	684.7	15,009.18	872.23	2,144,113	30,156	49.580
	20.6	712.0	14,974.46	907.01	2,227,102	31,321	49.552
	21.0	725.6	14,957.11	924.33	2,268,355	31,902	49.538
	21.4	739.2	14,939.77	941.66	2,309,584	32,482	49.524
	21.8	752.8	14,922.45	958.98	2,350,742	33,062	49.510
	22.2	766.4	14,905.13	976.31	2,391,878	33,640	49.496
	22.6	780.0	14,887.82	993.63	2,432,942	34,217	49.482
	23.0	793.5	14,870.53	1,010.83	2,473,665	34,793	49.468
	23.4	807.1	14,853.24	1,028.15	2,514,636	35,368	49.454
	23.8	820.7	14,835.97	1,045.48	2,555,584	35,942	49.440
	24.2	834.2	14,818.70	1,062.68	2,596,168	36,515	49.427
	24.6	847.8	14,801.44	1,080.00	2,636,998	37,087	49.413
	25.4	874.9	14,766.96	1,114.52	2,718,226	38,228	49.385
	25.8	888.4	14,749.73	1,131.72	2,758,624	38,797	49.371
	26.2	901.9	14,732.52	1,148.92	2,798,976	39,365	49.357
	26.6	915.4	14,715.31	1,166.11	2,839,258	39,933	49.343
	27.0	928.9	14,698.12	1,183.31	2,879,517	40,499	49.329
	27.7	952.5	14,668.05	1,213.38	2,949,787	41,487	49.305
	28.6	982.8	14,629.43	1,251.97	3,039,754	42,753	49.274
	29.4	1,009.7	14,595.15	1,286.24	3,119,452	43,874	49.246
	30.2	1,036.6	14,560.91	1,320.51	3,198,968	44,992	49.219
	31.8	1,090.3	14,492.55	1,388.92	3,357,136	47,215	49.163
	32.0	1,097.0	14,484.02	1,397.45	3,376,805	47,491	49.156
	33.3	1,140.5	14,428.61	1,452.87	3,504,316	49,285	49.112
	34.3	1,173.9	14,386.06	1,495.41	3,601,859	50,657	49.077
	34.9	1,193.9	14,360.56	1,520.89	3,660,144	51,477	49.056
	36.4	1,243.8	14,296.91	1,584.46	3,805,105	53,519	49.005
	38.1	1,300.3	14,224.94	1,656.43	3,968,456	55,816	48.946
	40.0	1,363.3	14,144.73	1,736.69	4,149,656	58,363	48.881
	42.5	1,445.9	14,039.52	1,841.91	4,385,649	61,682	48.795
	43.0	1,462.4	14,018.53	1,862.93	4,432,586	62,341	48.778
	45.0	1,528.2	13,934.71	1,946.75	4,619,039	64,963	48.710
	47.5	1,610.2	13,830.29	2,051.21	4,849,846	68,208	48.624
	50.0	1,691.8	13,726.27	2,155.16	5,077,783	71,417	48.539

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1422	52.5	1,773.2	13,622.63	2,258.85	5,303,460	74,589	48.454
	55.0	1,854.2	13,519.39	2,362.04	5,526,329	77,725	48.369
	57.5	1,934.9	13,416.54	2,464.84	5,746,671	80,826	48.285
	60.0	2,015.4	13,314.09	2,567.39	5,964,830	83,891	48.200
1430	9.5	332.8	15,636.64	423.95	1,069,367	14,956	50.223
	9.9	346.7	15,618.92	441.66	1,113,415	15,573	50.209
	10.3	360.6	15,601.20	459.36	1,157,389	16,188	50.195
	10.7	374.5	15,583.50	477.07	1,201,338	16,803	50.181
	11.1	388.4	15,565.80	494.78	1,245,238	17,416	50.167
	11.5	402.3	15,548.11	512.48	1,289,063	18,029	50.153
	11.9	416.2	15,530.44	530.19	1,332,864	18,640	50.139
	12.3	430.0	15,512.77	547.77	1,376,289	19,251	50.125
	12.7	443.9	15,495.12	565.48	1,419,991	19,860	50.111
	13.1	457.8	15,477.47	583.18	1,463,619	20,468	50.097
	13.5	471.6	15,459.84	600.76	1,506,897	21,075	50.083
	14.3	499.3	15,424.59	636.05	1,593,632	22,287	50.055
	15.1	526.9	15,389.39	671.21	1,679,846	23,494	50.027
	15.9	554.5	15,354.23	706.37	1,765,865	24,697	49.999
	16.7	582.1	15,319.11	741.53	1,851,689	25,896	49.971
	17.5	609.6	15,284.03	776.56	1,936,995	27,091	49.943
	18.3	637.1	15,248.99	811.59	2,022,109	28,282	49.915
	19.1	664.6	15,213.99	846.62	2,107,029	29,468	49.887
	19.8	688.6	15,183.40	877.20	2,181,000	30,503	49.863
	20.6	716.0	15,148.48	912.10	2,265,238	31,682	49.835
	21.4	743.4	15,113.59	947.01	2,349,309	32,857	49.807
	22.2	770.8	15,078.75	981.91	2,433,165	34,028	49.779
	23.0	798.1	15,043.94	1,016.69	2,516,534	35,195	49.751
	23.8	825.4	15,009.18	1,051.46	2,599,689	36,358	49.723
	24.6	852.6	14,974.46	1,086.11	2,682,358	37,517	49.696
	25.4	879.9	14,939.77	1,120.89	2,765,161	38,671	49.668
	26.0	900.3	14,913.79	1,146.88	2,826,904	39,535	49.647
	26.4	913.9	14,896.48	1,164.20	2,867,992	40,109	49.633
	27.0	934.2	14,870.53	1,190.06	2,929,240	40,969	49.612
	28.6	988.5	14,801.44	1,259.24	3,092,599	43,250	49.557
	29.4	1,015.5	14,766.96	1,293.63	3,173,509	44,385	49.529
	30.2	1,042.6	14,732.52	1,328.15	3,254,552	45,516	49.501
	31.8	1,096.5	14,663.76	1,396.82	3,415,180	47,766	49.446
	33.3	1,147.0	14,599.44	1,461.15	3,564,987	49,860	49.394
	34.9	1,200.8	14,530.99	1,529.68	3,723,857	52,080	49.339
	36.5	1,254.4	14,462.69	1,597.96	3,881,394	54,283	49.284



Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1430	38.1	1,307.9	14,394.56	1,666.11	4,037,895	56,471	49.229
	40.0	1,371.2	14,313.87	1,746.75	4,222,113	59,050	49.164
	42.5	1,454.3	14,208.04	1,852.61	4,462,388	62,409	49.078
	45.0	1,537.1	14,102.60	1,958.09	4,700,028	65,732	48.992
	47.5	1,619.5	13,997.55	2,063.06	4,934,743	69,017	48.907
	50.0	1,701.7	13,892.90	2,167.77	5,167,151	72,266	48.822
	52.5	1,783.5	13,788.63	2,271.97	5,396,674	75,478	48.737
	55.0	1,865.1	13,684.77	2,375.92	5,623,951	78,654	48.652
	57.5	1,946.3	13,581.29	2,479.36	5,848,384	81,794	48.567
	60.0	2,027.2	13,478.21	2,582.42	6,070,301	84,898	48.483
1438	19.1	668.4	15,389.39	851.46	2,143,170	29,806	50.170
	19.5	682.2	15,371.81	869.04	2,186,203	30,404	50.156
	19.8	692.5	15,358.63	882.17	2,218,309	30,853	50.145
	20.2	706.3	15,341.06	899.75	2,261,257	31,450	50.131
	20.6	720.1	15,323.50	917.32	2,304,133	32,046	50.117
	21.0	733.9	15,305.95	934.90	2,346,985	32,640	50.104
	21.4	747.6	15,288.41	952.36	2,389,487	33,234	50.090
	21.8	761.4	15,270.89	969.94	2,432,243	33,827	50.076
	22.2	775.1	15,253.37	987.39	2,474,625	34,419	50.062
	23.0	802.6	15,218.36	1,022.42	2,559,570	35,599	50.034
	23.5	819.8	15,196.51	1,044.33	2,612,604	36,335	50.017
	23.8	830.1	15,183.40	1,057.45	2,644,323	36,776	50.006
	24.6	857.5	15,148.48	1,092.36	2,728,585	37,948	49.978
	25.2	878.0	15,122.31	1,118.47	2,791,476	38,825	49.957
	25.4	884.9	15,113.59	1,127.26	2,812,632	39,117	49.951
	26.0	905.4	15,087.45	1,153.38	2,875,405	39,990	49.930
	26.5	922.5	15,065.69	1,175.16	2,927,668	40,717	49.912
	27.0	939.5	15,043.94	1,196.82	2,979,558	41,442	49.895
	28.6	994.1	14,974.46	1,266.37	3,145,705	43,750	49.840
	29.4	1,021.3	14,939.77	1,301.02	3,228,186	44,898	49.812
	29.8	1,034.9	14,922.45	1,318.34	3,269,344	45,471	49.798
	30.2	1,048.5	14,905.13	1,335.67	3,310,480	46,043	49.784
	36.5	1,261.6	14,633.72	1,607.13	3,948,587	54,916	49.567
1500	12.5	458.6	17,087.30	584.20	1,615,906	21,543	52.592
	16.0	585.6	16,925.50	745.99	2,053,815	27,382	52.470
1520	12.0	446.3	17,577.32	568.54	1,616,223	21,265	53.317
1524	8.0	299.1	17,860.44	381.02	1,094,632	14,365	53.599

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1524	10.3	384.5	17,751.65	489.81	1,402,935	18,411	53.518
	10.7	399.3	17,732.76	508.66	1,456,161	19,111	53.504
	11.1	414.2	17,713.88	527.64	1,509,703	19,810	53.490
	11.5	429.0	17,695.01	546.50	1,562,846	20,508	53.476
	11.9	443.8	17,676.16	565.35	1,615,903	21,204	53.462
	12.3	458.6	17,657.31	584.20	1,668,905	21,900	53.448
	12.5	466.0	17,647.89	593.63	1,695,399	22,247	53.441
	12.7	473.4	17,638.47	603.06	1,721,879	22,594	53.434
	13.1	488.1	17,619.65	621.78	1,774,397	23,287	53.420
	13.5	502.9	17,600.83	640.64	1,827,259	23,979	53.406
	13.9	517.7	17,582.02	659.49	1,880,037	24,670	53.392
	14.0	521.4	17,577.32	664.20	1,893,216	24,843	53.388
	14.3	532.4	17,563.23	678.22	1,932,417	25,360	53.378
	14.7	547.2	17,544.44	697.07	1,985,084	26,049	53.364
	15.0	558.2	17,530.35	711.08	2,024,183	26,565	53.353
	15.1	561.9	17,525.66	715.80	2,037,352	26,737	53.350
	15.5	576.6	17,506.90	734.52	2,089,537	27,423	53.336
	15.9	591.4	17,488.14	753.38	2,142,065	28,109	53.322
	16.0	595.0	17,483.45	757.96	2,154,804	28,280	53.318
	16.3	606.1	17,469.39	772.10	2,194,139	28,793	53.308
	16.7	620.8	17,450.66	790.83	2,246,187	29,476	53.294
	17.1	635.5	17,431.93	809.55	2,298,151	30,159	53.280
	17.5	650.2	17,413.21	828.28	2,350,088	30,840	53.266
	17.9	664.9	17,394.51	847.01	2,401,970	31,520	53.252
	18.3	679.5	17,375.81	865.61	2,453,428	32,199	53.238
	18.7	694.2	17,357.12	884.33	2,505,172	32,876	53.224
	19.1	708.9	17,338.45	903.06	2,556,889	33,553	53.210
	19.5	723.5	17,319.78	921.66	2,608,183	34,229	53.196
	19.8	734.5	17,305.79	935.67	2,646,788	34,735	53.186
	20.0	741.8	17,296.46	944.97	2,672,394	35,072	53.179
	20.6	763.8	17,268.50	972.99	2,749,470	36,081	53.158
	21.0	778.4	17,249.87	991.59	2,800,560	36,753	53.144
	21.4	793.0	17,231.26	1,010.19	2,851,596	37,423	53.130
	22.0	814.9	17,203.35	1,038.09	2,928,047	38,427	53.109
	22.2	822.2	17,194.05	1,047.39	2,953,504	38,761	53.102
	23.0	851.4	17,156.88	1,084.59	3,055,195	40,094	53.074
	23.4	866.0	17,138.31	1,103.18	3,105,931	40,759	53.060
	23.8	880.6	17,119.76	1,121.78	3,156,642	41,423	53.046
	24.6	909.7	17,082.67	1,158.85	3,257,536	42,747	53.018
	25.4	938.7	17,045.63	1,195.80	3,357,877	44,068	52.991
	27.0	996.8	16,971.65	1,269.81	3,558,227	46,696	52.935

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1524	28.6	1,054.8	16,897.84	1,343.69	3,757,359	49,306	52.880
	29.4	1,083.7	16,861.00	1,380.51	3,856,271	50,605	52.852
	30.2	1,112.6	16,824.20	1,417.32	3,954,944	51,900	52.824
	31.8	1,170.3	16,750.71	1,490.83	4,151,351	54,477	52.769
	33.3	1,224.2	16,681.96	1,559.49	4,334,009	56,877	52.717
	34.9	1,281.7	16,608.78	1,632.74	4,528,071	59,421	52.662
	36.5	1,339.0	16,535.77	1,705.73	4,720,583	61,949	52.606
	38.1	1,396.2	16,462.91	1,778.60	4,911,938	64,459	52.551
	40.0	1,463.9	16,376.61	1,864.84	5,137,299	67,419	52.486
	42.5	1,552.8	16,263.39	1,978.09	5,431,461	71,278	52.400
	45.0	1,641.4	16,150.57	2,090.96	5,722,607	75,097	52.314
	47.5	1,729.6	16,038.14	2,203.31	6,010,378	78,877	52.229
	50.0	1,817.6	15,926.10	2,315.41	6,295,531	82,617	52.143
	52.5	1,905.2	15,814.46	2,427.01	6,577,405	86,317	52.058
	55.0	1,992.6	15,703.21	2,538.34	6,856,647	89,979	51.973
	57.5	2,079.6	15,592.35	2,649.17	7,132,654	93,602	51.888
	60.0	2,166.3	15,481.88	2,759.62	7,405,771	97,187	51.803
1545	11.1	419.9	18,212.74	534.90	1,573,256	20,366	54.232
	11.5	434.9	18,193.61	554.01	1,628,620	21,083	54.218
	11.9	449.9	18,174.49	573.12	1,683,925	21,800	54.204
	12.3	464.9	18,155.38	592.23	1,739,173	22,515	54.190
	12.7	479.9	18,136.27	611.34	1,794,363	23,229	54.176
	13.1	494.9	18,117.18	630.45	1,849,496	23,942	54.162
	13.5	509.9	18,098.10	649.55	1,904,541	24,654	54.148
	14.3	539.8	18,059.97	687.64	2,014,138	26,074	54.120
	15.1	569.7	18,021.88	725.73	2,123,506	27,490	54.092
	15.9	599.6	17,983.83	763.82	2,232,645	28,901	54.064
	16.7	629.4	17,945.82	801.78	2,341,177	30,308	54.036
	17.5	659.2	17,907.85	839.75	2,449,512	31,710	54.008
	18.3	689.0	17,869.92	877.71	2,557,590	33,108	53.980
	19.1	718.8	17,832.03	915.67	2,665,442	34,502	53.952
	19.8	744.8	17,798.91	948.79	2,759,351	35,718	53.928
	20.6	774.5	17,761.09	986.62	2,866,402	37,103	53.900
	21.4	804.1	17,723.32	1,024.33	2,972,881	38,484	53.872
	22.2	833.7	17,685.58	1,062.04	3,079,136	39,860	53.844
	23.0	863.3	17,647.89	1,099.75	3,185,169	41,232	53.816
	23.8	892.9	17,610.24	1,137.45	3,290,950	42,600	53.789
	24.6	922.4	17,572.62	1,175.03	3,396,162	43,963	53.761
	25.4	951.9	17,535.05	1,212.61	3,501,153	45,322	53.733
	27.0	1,010.8	17,460.02	1,287.64	3,710,098	48,026	53.677

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Technical data of tubes

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1545	28.6	1,069.6	17,385.16	1,362.55	3,917,820	50,714	53.622
	29.4	1,098.9	17,347.78	1,399.87	4,020,965	52,051	53.594
	30.2	1,128.2	17,310.45	1,437.20	4,123,922	53,384	53.566
	31.8	1,186.7	17,235.91	1,511.72	4,328,783	56,036	53.511
	33.3	1,241.5	17,166.17	1,581.53	4,519,906	58,508	53.459
	34.9	1,299.7	17,091.94	1,655.67	4,722,012	61,128	53.404
	36.5	1,357.9	17,017.87	1,729.81	4,923,265	63,730	53.349
	38.1	1,415.9	16,943.96	1,803.69	5,122,929	66,316	53.293
	40.0	1,484.7	16,856.40	1,891.34	5,358,698	69,365	53.228
	42.5	1,574.8	16,741.53	2,006.11	5,665,537	73,340	53.142
	45.0	1,664.7	16,627.06	2,120.64	5,969,668	77,275	53.056
	47.5	1,754.2	16,512.98	2,234.65	6,270,323	81,170	52.971
	50.0	1,843.5	16,399.30	2,348.41	6,568,283	85,024	52.885
	52.5	1,932.4	16,286.00	2,461.66	6,862,839	88,839	52.800
	55.0	2,021.1	16,173.10	2,574.65	7,154,711	92,614	52.715
	57.5	2,109.4	16,060.59	2,687.13	7,443,224	96,350	52.630
	60.0	2,197.4	15,948.48	2,799.24	7,728,789	100,046	52.545
1562	15.9	606.3	18,390.18	772.36	2,308,080	29,551	54.665
	17.5	666.6	18,313.34	849.17	2,532,423	32,424	54.609
	18.3	696.7	18,274.98	887.52	2,644,082	33,854	54.581
	19.1	726.8	18,236.67	925.86	2,755,481	35,280	54.553
	19.8	753.1	18,203.17	959.36	2,852,624	36,523	54.529
	20.2	768.1	18,184.05	978.47	2,907,958	37,232	54.515
	20.6	783.1	18,164.93	997.58	2,963,234	37,940	54.501
	21.4	813.1	18,126.73	1,035.80	3,073,615	39,353	54.473
	22.2	843.0	18,088.57	1,073.89	3,183,382	40,761	54.445
	23.8	902.9	18,012.36	1,150.19	3,402,587	43,564	54.390
	24.6	932.7	17,974.32	1,188.15	3,511,286	44,959	54.362
	25.4	962.5	17,936.32	1,226.11	3,619,760	46,349	54.334
1575	12.3	474.0	18,878.92	603.82	1,843,298	23,408	55.251
	12.7	489.3	18,859.44	623.31	1,901,830	24,151	55.237
	13.1	504.6	18,839.97	642.80	1,960,302	24,893	55.223
	14.3	550.4	18,781.63	701.15	2,134,992	27,111	55.181
	15.1	580.9	18,742.78	740.00	2,251,002	28,584	55.153
	15.9	611.4	18,703.98	778.85	2,366,775	30,052	55.125
	16.7	641.8	18,665.21	817.58	2,481,946	31,516	55.097
	17.5	672.2	18,626.49	856.31	2,596,881	32,975	55.069
	18.3	702.6	18,587.80	895.03	2,711,549	34,430	55.041
	19.1	732.9	18,549.16	933.63	2,825,619	35,880	55.013

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1575	19.8	759.4	18,515.38	967.39	2,925,193	37,145	54.989
	20.6	789.7	18,476.81	1,005.99	3,038,824	38,587	54.961
	21.4	819.9	18,438.28	1,044.46	3,151,829	40,024	54.933
	22.2	850.2	18,399.79	1,083.06	3,264,994	41,457	54.905
	23.0	880.3	18,361.34	1,121.40	3,377,142	42,885	54.877
	23.8	910.5	18,322.94	1,159.87	3,489,452	44,309	54.849
	24.6	940.6	18,284.57	1,198.22	3,601,168	45,728	54.821
	25.4	970.7	18,246.24	1,236.56	3,712,625	47,143	54.793
	27.0	1,030.8	18,169.71	1,313.12	3,934,490	49,960	54.738
	28.6	1,090.7	18,093.33	1,389.43	4,154,693	52,758	54.682
	29.4	1,120.7	18,055.21	1,427.64	4,264,617	54,151	54.655
	30.2	1,150.6	18,017.12	1,465.73	4,373,957	55,539	54.627
	31.8	1,210.3	17,941.07	1,541.78	4,591,570	58,303	54.571
	33.3	1,266.1	17,869.92	1,612.87	4,794,151	60,877	54.520
	34.9	1,325.6	17,794.18	1,688.66	5,009,254	63,607	54.464
	36.5	1,384.9	17,718.60	1,764.20	5,222,726	66,319	54.409
	38.1	1,444.1	17,643.18	1,839.62	5,434,958	69,014	54.354
	40.0	1,514.2	17,553.83	1,928.92	5,685,070	72,192	54.288
	42.5	1,606.3	17,436.61	2,046.24	6,011,757	76,337	54.202
	45.0	1,698.0	17,319.78	2,163.06	6,334,859	80,440	54.117
	47.5	1,789.4	17,203.35	2,279.49	6,654,722	84,502	54.031
	50.0	1,880.5	17,087.30	2,395.54	6,971,396	88,523	53.945
1600	11.5	450.5	19,532.28	573.89	1,810,239	22,628	56.163
	11.9	466.1	19,512.47	593.76	1,871,979	23,398	56.149
	12.3	481.6	19,492.66	613.50	1,933,248	24,166	56.135
	12.5	489.4	19,482.77	623.44	1,964,080	24,550	56.128
	12.7	497.2	19,472.87	633.38	1,994,896	24,933	56.121
	13.1	512.7	19,453.09	653.12	2,056,041	25,699	56.107
	13.5	528.2	19,433.32	672.87	2,117,156	26,464	56.093
	14.3	559.2	19,393.80	712.36	2,239,169	27,990	56.065
	15.1	590.2	19,354.33	751.85	2,360,937	29,512	56.037
	15.9	621.2	19,314.90	791.34	2,482,459	31,028	56.009
	16.0	625.0	19,309.97	796.18	2,497,330	31,218	56.005
	16.7	652.1	19,275.50	830.70	2,603,328	32,541	55.981
	17.5	683.0	19,236.15	870.06	2,723,954	34,048	55.953
	18.3	713.8	19,196.84	909.30	2,843,961	35,551	55.925
	19.1	744.7	19,157.57	948.66	2,964,100	37,049	55.897
	19.8	771.6	19,123.24	982.93	3,068,492	38,357	55.872
	20.0	779.3	19,113.43	992.74	3,098,342	38,729	55.865
	20.6	802.4	19,084.04	1,022.17	3,187,802	39,846	55.844

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1600	21.4	833.1	19,044.88	1,061.27	3,306,435	41,331	55.817
	22.2	863.8	19,005.77	1,100.38	3,424,858	42,812	55.789
	23.0	894.5	18,966.69	1,139.49	3,543,042	44,288	55.761
	23.8	925.2	18,927.65	1,178.60	3,660,986	45,759	55.733
	24.6	955.8	18,888.66	1,217.58	3,778,288	47,226	55.705
	25.4	986.4	18,849.70	1,256.56	3,895,352	48,689	55.677
	27.0	1,047.4	18,771.91	1,334.27	4,127,995	51,600	55.622
	28.6	1,108.4	18,694.28	1,411.97	4,359,662	54,493	55.566
	29.4	1,138.8	18,655.53	1,450.70	4,474,772	55,933	55.538
	30.2	1,169.2	18,616.81	1,489.43	4,589,649	57,368	55.511
	31.8	1,229.9	18,539.50	1,566.75	4,818,271	60,226	55.455
	33.3	1,286.6	18,467.17	1,638.98	5,030,968	62,888	55.403
	34.9	1,347.1	18,390.18	1,716.05	5,257,025	65,711	55.348
	36.5	1,407.4	18,313.34	1,792.87	5,481,397	68,516	55.293
	38.1	1,467.6	18,236.67	1,869.55	5,704,425	71,304	55.237
	40.0	1,538.9	18,145.82	1,960.38	5,967,397	74,592	55.172
	42.5	1,632.5	18,026.64	2,079.62	6,310,639	78,880	55.086
	45.0	1,725.7	17,907.85	2,198.34	6,650,116	83,126	55.000
	47.5	1,818.7	17,789.45	2,316.82	6,986,697	87,330	54.914
	50.0	1,911.3	17,671.44	2,434.78	7,319,557	91,493	54.829
1620	52.5	2,003.6	17,553.83	2,552.36	7,649,144	95,614	54.743
	55.0	2,095.7	17,436.61	2,669.68	7,975,836	99,694	54.658
	57.5	2,187.4	17,319.78	2,786.50	8,298,937	103,733	54.573
	60.0	2,278.8	17,203.35	2,902.93	8,618,799	107,732	54.488
	6.4	254.7	20,287.54	324.46	1,056,014	13,036	57.049
	6.7	266.6	20,272.39	339.62	1,104,946	13,640	57.039
	7.1	282.4	20,252.21	359.75	1,169,861	14,443	57.025
	7.5	298.3	20,232.04	380.00	1,235,101	15,246	57.011
	7.9	314.1	20,211.87	400.13	1,299,887	16,047	56.997
	8.3	329.9	20,191.72	420.25	1,364,576	16,847	56.982
	8.7	345.7	20,171.57	440.38	1,429,233	17,646	56.968
	9.1	361.5	20,151.44	460.51	1,493,827	18,443	56.954
	9.5	377.3	20,131.32	480.64	1,558,355	19,240	56.940
	9.9	393.1	20,111.20	500.76	1,622,788	20,035	56.926
	10.3	408.9	20,091.10	520.89	1,687,189	20,829	56.912
	10.7	424.7	20,071.01	541.02	1,751,526	21,622	56.898
	11.1	440.4	20,050.92	561.02	1,815,378	22,413	56.884
	11.5	456.2	20,030.85	581.15	1,879,588	23,204	56.870
	11.9	471.9	20,010.79	601.15	1,943,313	23,993	56.856
	12.0	475.9	20,005.77	606.24	1,959,525	24,190	56.852

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1620	12.3	487.7	19,990.73	621.27	2,007,363	24,781	56.842
	12.5	495.6	19,980.71	631.34	2,039,396	25,175	56.835
	12.7	503.4	19,970.69	641.27	2,070,961	25,568	56.828
	13.0	515.2	19,955.66	656.31	2,118,748	26,157	56.817
	13.1	519.1	19,950.66	661.27	2,134,496	26,354	56.814
	13.5	534.9	19,930.63	681.40	2,198,388	27,138	56.800
	14.3	566.3	19,890.62	721.40	2,325,142	28,704	56.772
	14.5	574.1	19,880.62	731.34	2,356,597	29,094	56.765
	15.1	597.7	19,850.64	761.40	2,451,643	30,265	56.744
	15.9	629.0	19,810.70	801.27	2,577,475	31,821	56.716
	16.0	632.9	19,805.71	806.24	2,593,142	32,015	56.712
	16.7	660.3	19,770.81	841.15	2,703,088	33,372	56.688
	17.5	691.6	19,730.95	881.02	2,828,418	34,919	56.660
	18.3	722.9	19,691.14	920.89	2,953,499	36,461	56.632
	19.1	754.1	19,651.36	960.64	3,077,945	37,998	56.604
	19.8	781.4	19,616.59	995.41	3,186,596	39,340	56.579
	20.6	812.6	19,576.89	1,035.16	3,310,577	40,868	56.552
	21.4	843.7	19,537.23	1,074.78	3,433,895	42,392	56.524
	22.2	874.8	19,497.61	1,114.39	3,556,935	43,912	56.496
	23.0	905.9	19,458.03	1,154.01	3,679,760	45,426	56.468
	23.8	936.9	19,418.50	1,193.50	3,801,925	46,937	56.440
	25.0	983.4	19,359.26	1,252.74	3,984,731	49,193	56.398
	25.4	998.9	19,339.54	1,272.48	4,045,523	49,943	56.384
	27.0	1,060.7	19,260.74	1,351.21	4,287,352	52,931	56.329
	28.6	1,122.5	19,182.11	1,429.94	4,528,212	55,901	56.273
	29.4	1,153.3	19,142.85	1,469.17	4,647,853	57,379	56.245
	30.2	1,184.1	19,103.63	1,508.41	4,767,285	58,853	56.218
	31.8	1,245.5	19,025.32	1,586.62	5,004,577	61,786	56.162
	33.3	1,303.1	18,952.05	1,660.00	5,226,356	64,520	56.110
	34.9	1,364.3	18,874.04	1,737.96	5,461,018	67,419	56.055
	36.5	1,425.4	18,796.20	1,815.80	5,694,359	70,300	56.000
	38.1	1,486.4	18,718.52	1,893.50	5,926,322	73,163	55.944
	40.0	1,558.6	18,626.49	1,985.48	6,199,661	76,539	55.879
	42.5	1,653.4	18,505.73	2,106.24	6,556,495	80,945	55.793
	45.0	1,747.9	18,385.37	2,226.62	6,909,898	85,307	55.707
	47.5	1,842.1	18,265.40	2,346.62	7,259,892	89,627	55.621
	50.0	1,936.0	18,145.82	2,466.24	7,606,501	93,904	55.536
	52.5	2,029.5	18,026.64	2,585.35	7,949,346	98,140	55.450
	55.0	2,122.8	17,907.85	2,704.20	8,289,218	102,333	55.365
	57.5	2,215.7	17,789.45	2,822.55	8,625,404	106,486	55.280
	60.0	2,308.4	17,671.44	2,940.64	8,958,660	110,597	55.195

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Technical data of tubes

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
1626	11.9	473.7	20,161.51	603.44	1,965,299	24,173	57.068
	12.3	489.5	20,141.38	623.57	2,029,860	24,967	57.054
	12.5	497.4	20,131.32	633.63	2,062,100	25,364	57.047
	12.7	505.3	20,121.26	643.69	2,094,325	25,760	57.040
	13.1	521.1	20,101.15	663.82	2,158,758	26,552	57.026
	13.5	536.9	20,081.05	683.95	2,223,127	27,342	57.012
	14.0	556.6	20,055.94	709.04	2,303,263	28,329	56.994
	14.3	568.4	20,040.88	724.08	2,351,252	28,920	56.984
	14.5	576.3	20,030.85	734.14	2,383,333	29,313	56.977
	16.0	635.3	19,955.66	809.30	2,622,492	32,256	56.924
1685	22.2	878.1	19,646.39	1,118.60	3,597,232	44,244	56.708
1685	24.5	1,003.3	21,021.13	1,278.09	4,405,993	52,296	58.713
	25.0	1,023.5	20,995.44	1,303.82	4,492,027	53,316	58.696
1700	9.9	412.6	22,172.34	525.61	1,876,780	22,082	59.755
1702	33.3	1,370.4	21,005.72	1,745.73	6,078,782	71,430	59.009
1720	19.8	830.2	22,177.62	1,057.58	3,821,925	44,441	60.115
1727	11.9	503.3	22,783.52	641.15	2,357,597	27,305	60.639
	12.3	520.1	22,762.12	662.55	2,435,159	28,203	60.625
	12.7	536.9	22,740.73	683.95	2,512,649	29,100	60.611
	13.1	553.7	22,719.36	705.35	2,590,067	29,995	60.597
	13.5	570.5	22,697.99	726.75	2,667,413	30,890	60.583
	14.3	604.0	22,655.28	769.43	2,821,448	32,674	60.555
	15.1	637.5	22,612.62	812.10	2,975,158	34,454	60.527
	15.9	671.0	22,569.99	854.78	3,128,619	36,229	60.499
	16.7	704.4	22,527.41	897.32	3,281,281	37,999	60.471
	17.5	737.8	22,484.86	939.87	3,433,694	39,764	60.443
1727	18.3	771.2	22,442.36	982.42	3,585,821	41,524	60.415
	19.1	804.5	22,399.89	1,024.84	3,737,191	43,279	60.387
	19.8	833.6	22,362.77	1,061.91	3,869,234	44,810	60.362
	20.6	866.9	22,320.38	1,104.33	4,020,072	46,556	60.334
	21.4	900.2	22,278.03	1,146.75	4,170,629	48,296	60.306
	22.2	933.4	22,235.72	1,189.04	4,320,430	50,032	60.278
	23.0	966.6	22,193.46	1,231.34	4,469,987	51,762	60.250
	23.8	999.7	22,151.23	1,273.50	4,618,756	53,488	60.223
	25.4	1,065.9	22,066.89	1,357.83	4,915,494	56,925	60.167

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Technical data of tubes

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1727	27.0	1,132.0	21,982.72	1,442.04	5,210,684	60,342	60.111
	28.6	1,197.9	21,898.70	1,525.99	5,503,828	63,739	60.056
	29.4	1,230.9	21,856.76	1,568.03	5,650,220	65,431	60.028
	30.2	1,263.8	21,814.85	1,609.94	5,795,869	67,117	60.000
	31.8	1,329.5	21,731.16	1,693.63	6,085,878	70,476	59.944
	33.3	1,390.9	21,652.84	1,771.85	6,355,911	73,607	59.892
	34.9	1,456.4	21,569.46	1,855.29	6,642,913	76,928	59.837
	36.5	1,521.7	21,486.25	1,938.47	6,927,904	80,230	59.782
	38.1	1,586.9	21,403.19	2,021.53	7,211,391	83,513	59.726
	40.0	1,664.2	21,304.76	2,120.00	7,546,058	87,387	59.661
	42.5	1,765.6	21,175.60	2,249.17	7,982,716	92,444	59.575
	45.0	1,866.7	21,046.84	2,377.96	8,415,449	97,454	59.488
	47.5	1,967.4	20,918.47	2,506.24	8,843,821	102,419	59.403
	50.0	2,067.9	20,790.48	2,634.27	9,268,775	107,338	59.317
1740	18.3	777.0	22,788.87	989.81	3,667,971	42,161	60.874
	19.1	810.6	22,746.08	1,032.61	3,823,060	43,944	60.846
	19.8	840.0	22,708.67	1,070.06	3,958,527	45,499	60.822
1800	14.0	616.6	24,661.36	785.48	3,132,094	34,803	63.146
	16.0	704.0	24,550.14	896.82	3,568,124	39,642	63.076
	20.0	878.0	24,328.47	1,118.47	4,430,260	49,222	62.936
1803	51.0	2,203.6	22,724.70	2,807.13	10,779,748	119,574	61.968
1810	6.4	284.7	25,367.77	362.68	1,474,754	16,294	63.767
	6.7	298.0	25,350.84	379.62	1,543,125	17,049	63.756
	7.1	315.7	25,328.27	402.17	1,634,067	18,055	63.742
	7.5	333.4	25,305.70	424.71	1,724,887	19,059	63.728
	7.9	351.1	25,283.15	447.26	1,815,667	20,062	63.714
	8.3	368.8	25,260.61	469.81	1,906,367	21,064	63.700
	8.7	386.5	25,238.08	492.36	1,996,986	22,065	63.686
	9.1	404.2	25,215.56	514.90	2,087,484	23,064	63.672
	9.5	421.8	25,193.05	537.32	2,177,416	24,062	63.658
	9.9	439.5	25,170.55	559.87	2,267,794	25,058	63.644
	10.3	457.2	25,148.05	582.42	2,358,092	26,053	63.630
	10.7	474.8	25,125.57	604.84	2,447,784	27,047	63.615
	11.1	492.4	25,103.10	627.26	2,537,396	28,040	63.601
	11.5	510.1	25,080.64	649.81	2,627,454	29,031	63.587
	11.9	527.7	25,058.19	672.23	2,716,906	30,021	63.573
	12.3	545.3	25,035.75	694.65	2,806,279	31,009	63.559

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Technical data of tubes

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1810	12.7	562.9	25,013.32	717.07	2,895,573	31,996	63.545
	13.1	580.5	24,990.90	739.49	2,984,786	32,982	63.531
	13.5	598.1	24,968.49	761.91	3,073,921	33,967	63.517
	14.3	633.3	24,923.69	806.75	3,251,952	35,932	63.489
	15.1	668.4	24,878.94	851.46	3,429,142	37,891	63.461
	15.9	703.5	24,834.23	896.18	3,606,058	39,846	63.433
	16.0	707.9	24,828.65	901.78	3,628,190	40,090	63.430
	16.7	738.6	24,789.56	940.89	3,782,618	41,795	63.405
	17.5	773.6	24,744.93	985.48	3,958,381	43,739	63.377
	18.3	808.6	24,700.34	1,030.06	4,133,790	45,678	63.349
	19.1	843.6	24,655.79	1,074.65	4,308,927	47,611	63.321
	19.8	874.2	24,616.84	1,113.63	4,461,770	49,299	63.296
	20.6	909.1	24,572.37	1,158.09	4,635,801	51,222	63.269
	21.4	944.0	24,527.93	1,202.55	4,809,521	53,141	63.241
	22.2	978.8	24,483.54	1,246.88	4,982,410	55,054	63.213
	23.0	1,013.6	24,439.18	1,291.21	5,154,992	56,962	63.185
	23.8	1,048.4	24,394.87	1,335.54	5,327,264	58,865	63.157
	24.6	1,083.2	24,350.59	1,379.87	5,499,228	60,763	63.129
	25.4	1,117.9	24,306.36	1,424.08	5,670,406	62,655	63.101
	27.0	1,187.3	24,218.01	1,512.48	6,011,764	66,425	63.045
	28.6	1,256.5	24,129.83	1,600.64	6,350,947	70,174	62.990
	29.4	1,291.0	24,085.80	1,644.59	6,519,568	72,041	62.962
	30.2	1,325.6	24,041.80	1,688.66	6,688,360	73,902	62.934
	31.8	1,394.6	23,953.94	1,776.56	7,024,089	77,610	62.878
	33.3	1,459.1	23,871.71	1,858.73	7,336,807	81,068	62.826
	34.9	1,527.8	23,784.16	1,946.24	7,668,667	84,737	62.771
	36.5	1,596.4	23,696.77	2,033.63	7,998,863	88,386	62.715
	38.1	1,664.9	23,609.54	2,120.89	8,327,360	92,014	62.660
	40.0	1,746.1	23,506.16	2,224.33	8,715,203	96,297	62.594
	42.5	1,852.6	23,370.48	2,360.00	9,221,294	101,890	62.508
	45.0	1,958.8	23,235.20	2,495.29	9,723,054	107,434	62.422
	47.5	2,064.7	23,100.31	2,630.19	10,220,467	112,930	62.336
	50.0	2,170.3	22,965.81	2,764.71	10,713,597	118,378	62.250
	52.5	2,275.5	22,831.70	2,898.73	11,202,007	123,778	62.164
	55.0	2,380.5	22,697.99	3,032.48	11,686,609	129,132	62.079
	57.5	2,485.2	22,564.67	3,165.86	12,167,043	134,438	61.993
	60.0	2,589.5	22,431.74	3,298.73	12,642,795	139,697	61.908
1820	12.0	535.1	25,333.91	681.66	2,785,440	30,607	63.923
	12.5	557.2	25,305.70	709.81	2,898,875	31,856	63.906
	16.0	711.8	25,108.72	906.75	3,688,968	40,540	63.783

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Technical data of tubes

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1829	12.5	560.0	25,560.10	713.38	2,942,540	32,175	64.224
	12.7	568.9	25,548.77	724.71	2,988,620	32,679	64.217
	16.0	715.4	25,362.13	911.34	3,744,725	40,947	64.101
	60.0	2,617.6	22,938.96	3,334.52	13,058,651	142,794	62.579
	62.5	2,722.8	22,804.93	3,468.54	13,546,507	148,129	62.494
	65.0	2,827.7	22,671.29	3,602.17	14,030,097	153,418	62.409
1850	14.3	647.4	26,055.55	824.71	3,474,090	37,557	64.903
	15.1	683.3	26,009.79	870.45	3,663,600	39,606	64.875
	15.9	719.2	25,964.07	916.18	3,852,738	41,650	64.847
	16.7	755.1	25,918.40	961.91	4,041,547	43,689	64.819
	17.5	790.9	25,872.76	1,007.52	4,229,522	45,722	64.791
	18.3	826.7	25,827.17	1,053.12	4,417,127	47,750	64.763
	19.1	862.4	25,781.61	1,098.60	4,603,902	49,773	64.735
	19.8	893.7	25,741.78	1,138.47	4,767,378	51,538	64.711
	20.6	929.4	25,696.30	1,183.95	4,953,542	53,551	64.683
	21.4	965.1	25,650.86	1,229.43	5,139,380	55,558	64.655
	22.2	1,000.7	25,605.46	1,274.78	5,324,351	57,560	64.627
	23.0	1,036.3	25,560.10	1,320.13	5,508,999	59,557	64.599
	23.8	1,071.9	25,514.78	1,365.48	5,693,323	61,548	64.571
	24.6	1,107.4	25,469.50	1,410.70	5,876,783	63,534	64.543
	25.4	1,143.0	25,424.26	1,456.05	6,060,463	65,515	64.515
	27.0	1,213.9	25,333.91	1,546.37	6,425,280	69,461	64.459
	28.6	1,284.7	25,243.71	1,636.56	6,788,279	73,385	64.404
	29.4	1,320.0	25,198.67	1,681.53	6,968,783	75,340	64.376
	30.2	1,355.4	25,153.68	1,726.62	7,149,467	77,289	64.348
	31.8	1,425.9	25,063.80	1,816.43	7,508,356	81,172	64.292
	33.3	1,492.0	24,979.69	1,900.64	7,843,722	84,793	64.240
	34.9	1,562.3	24,890.13	1,990.19	8,199,101	88,635	64.185
	36.5	1,632.4	24,800.72	2,079.49	8,552,201	92,457	64.129
	38.1	1,702.5	24,711.48	2,168.79	8,904,058	96,258	64.074
	40.0	1,785.5	24,605.72	2,274.52	9,318,993	100,746	64.008
	42.5	1,894.5	24,466.90	2,413.38	9,861,259	106,606	63.922
	45.0	2,003.2	24,328.47	2,551.85	10,398,949	112,417	63.836
	47.5	2,111.5	24,190.44	2,689.81	10,931,598	118,179	63.750
	50.0	2,219.6	24,052.80	2,827.52	11,460,292	123,892	63.664
	52.5	2,327.3	23,915.55	2,964.71	11,983,960	129,555	63.578
	55.0	2,434.8	23,778.69	3,101.66	12,503,761	135,171	63.492
	57.5	2,541.9	23,642.23	3,238.09	13,018,589	140,738	63.407
	60.0	2,648.7	23,506.16	3,374.14	13,529,036	146,257	63.321

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1920	11.0	517.9	28,293.19	659.75	3,005,493	31,305	67.494
2000	14.0	685.7	30,542.41	873.50	4,306,783	43,067	70.217
	15.1	739.2	30,474.30	941.66	4,637,741	46,374	70.178
	16.0	782.9	30,418.63	997.32	4,907,453	49,072	70.147
	19.8	966.9	30,184.15	1,231.72	6,037,867	60,380	70.014
	20.0	976.6	30,171.83	1,244.08	6,097,236	60,972	70.007
	20.2	986.3	30,159.52	1,256.43	6,156,533	61,563	70.000
	20.6	1,005.6	30,134.90	1,281.02	6,274,514	62,745	69.986
2020	14.0	692.6	31,165.08	882.29	4,438,175	43,942	70.924
	15.0	741.7	31,102.53	944.84	4,748,116	47,011	70.889
	16.0	790.8	31,040.04	1,007.39	5,057,441	50,070	70.854
	19.1	942.5	30,846.73	1,200.64	6,009,152	59,496	70.745
	20.0	986.5	30,790.72	1,256.69	6,284,079	62,216	70.714
2032	12.7	632.5	31,623.59	805.73	4,106,941	40,419	71.394
	13.1	652.3	31,598.38	830.96	4,233,875	41,668	71.380
	13.5	672.0	31,573.18	856.05	4,359,996	42,915	71.366
	13.9	691.8	31,547.99	881.27	4,486,679	44,160	71.352
	14.3	711.6	31,522.80	906.50	4,613,312	45,404	71.338
	14.7	731.3	31,497.63	931.59	4,739,133	46,646	71.324
	15.1	751.1	31,472.47	956.82	4,865,566	47,887	71.310
	15.5	770.8	31,447.32	981.91	4,991,187	49,127	71.296
	15.9	790.6	31,422.18	1,007.13	5,117,369	50,365	71.282
	16.7	830.0	31,371.93	1,057.32	5,368,163	52,836	71.254
	17.5	869.4	31,321.72	1,107.52	5,618,610	55,302	71.226
	17.9	889.1	31,296.63	1,132.61	5,743,634	56,532	71.212
	18.3	908.8	31,271.55	1,157.71	5,868,610	57,761	71.197
	18.7	928.5	31,246.48	1,182.80	5,993,435	58,989	71.183
	19.1	948.2	31,221.42	1,207.90	6,118,212	60,215	71.169
	19.8	982.6	31,177.59	1,251.72	6,335,801	62,357	71.145
	20.6	1,021.9	31,127.54	1,301.78	6,584,003	64,800	71.117
	21.4	1,061.1	31,077.52	1,351.72	6,831,205	67,237	71.089
	22.2	1,100.4	31,027.55	1,401.78	7,078,619	69,668	71.061
	23.0	1,139.6	30,977.62	1,451.72	7,325,034	72,093	71.033
	23.8	1,178.7	30,927.72	1,501.53	7,570,403	74,512	71.005
	24.6	1,217.9	30,877.87	1,551.46	7,815,984	76,925	70.977
	25.4	1,257.0	30,828.06	1,601.27	8,060,571	79,333	70.949
	27.0	1,335.1	30,728.55	1,700.76	8,547,922	84,130	70.893

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2032	28.6	1,413.1	30,629.21	1,800.13	9,033,119	88,905	70.838
	29.4	1,452.0	30,579.59	1,849.68	9,274,460	91,283	70.810
	30.2	1,490.9	30,530.02	1,899.24	9,515,466	93,656	70.782
	31.8	1,568.7	30,431.00	1,998.34	9,996,224	98,384	70.726
	33.3	1,641.4	30,338.31	2,090.96	10,444,112	102,796	70.674
	34.9	1,718.9	30,239.60	2,189.68	10,920,006	107,479	70.618
	36.5	1,796.3	30,141.05	2,288.28	11,393,782	112,140	70.563
	38.1	1,873.5	30,042.66	2,386.62	11,864,750	116,778	70.507
	40.0	1,965.1	29,926.03	2,503.31	12,421,625	122,256	70.442
	42.5	2,085.3	29,772.92	2,656.43	13,149,052	129,415	70.355
	45.0	2,205.2	29,620.20	2,809.17	13,870,958	136,520	70.269
	47.5	2,324.7	29,467.87	2,961.40	14,586,733	143,570	70.182
	50.0	2,444.0	29,315.94	3,113.38	15,297,686	150,565	70.096
	52.5	2,563.0	29,164.39	3,264.97	16,003,155	157,506	70.010
	55.0	2,681.6	29,013.24	3,416.05	16,702,580	164,394	69.924
	57.5	2,800.0	28,862.49	3,566.88	17,397,263	171,228	69.838
	60.0	2,918.0	28,712.12	3,717.20	18,085,962	178,009	69.752
2064	16.3	823.2	32,410.10	1,048.66	5,496,736	53,259	72.399
	16.7	843.2	32,384.58	1,074.14	5,628,113	54,534	72.385
2082	12.7	648.1	33,219.20	825.61	4,419,247	42,452	73.162
	13.1	668.4	33,193.36	851.46	4,555,863	43,764	73.148
	20.2	1,027.1	32,736.39	1,308.41	6,953,263	66,795	72.899
	20.6	1,047.3	32,710.74	1,334.14	7,087,276	68,078	72.885
	21.0	1,067.4	32,685.10	1,359.75	7,220,548	69,360	72.871
	21.4	1,087.5	32,659.47	1,385.35	7,353,664	70,640	72.857
	21.8	1,107.6	32,633.85	1,410.96	7,486,729	71,919	72.843
	22.2	1,127.7	32,608.24	1,436.56	7,619,638	73,196	72.829
2130	9.9	517.6	34,973.31	659.36	3,704,715	34,788	74.957
2200	14.0	754.8	37,051.79	961.53	5,743,690	52,211	77.288
	16.0	861.8	36,915.44	1,097.83	6,545,966	59,507	77.218
	20.0	1,075.3	36,643.51	1,369.81	8,138,042	73,978	77.077
2220	17.5	950.6	37,496.64	1,210.96	7,343,432	66,153	77.872
	21.4	1,160.3	37,229.41	1,478.09	8,931,913	80,470	77.735
2235	11.1	608.8	38,456.86	775.54	4,794,635	42,904	78.627
	12.7	696.0	38,345.71	886.62	5,473,525	48,982	78.571

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
2235	13.1	717.8	38,317.95	914.39	5,642,943	50,498	78.557
	15.4	843.0	38,158.52	1,073.89	6,613,634	59,181	78.476
	15.9	870.2	38,123.90	1,108.54	6,823,975	61,061	78.459
	16.3	891.9	38,096.22	1,136.18	6,991,619	62,563	78.445
	17.1	935.3	38,040.89	1,191.46	7,326,545	65,563	78.416
	17.5	957.0	38,013.24	1,219.11	7,493,889	67,061	78.402
	17.9	978.7	37,985.60	1,246.75	7,661,050	68,557	78.388
	18.3	1,000.4	37,957.97	1,274.39	7,828,090	70,051	78.374
	19.1	1,043.8	37,902.74	1,329.68	8,161,871	73,035	78.346
2330	20.0	1,139.4	41,187.03	1,451.46	9,682,145	83,106	81.673
2340	17.5	1,002.4	41,728.37	1,276.94	8,610,267	73,588	82.115
	17.9	1,025.1	41,699.41	1,305.86	8,802,262	75,231	82.101
	18.0	1,030.8	41,692.17	1,313.12	8,850,442	75,642	82.097
	18.3	1,047.8	41,670.45	1,334.78	8,994,124	76,873	82.087
	18.7	1,070.5	41,641.51	1,363.69	9,185,788	78,512	82.073
	19.1	1,093.2	41,612.58	1,392.61	9,377,386	80,151	82.058
	19.5	1,115.9	41,583.66	1,421.53	9,568,853	81,787	82.044
	19.9	1,138.6	41,554.75	1,450.45	9,760,187	83,422	82.030
	20.6	1,178.3	41,504.19	1,501.02	10,094,436	86,279	82.006
2360	14.3	827.3	42,689.70	1,053.89	7,248,805	61,425	82.934
	15.1	873.2	42,631.13	1,112.36	7,645,784	64,796	82.906
	15.9	919.2	42,572.59	1,170.96	8,043,116	68,159	82.878
	16.7	965.1	42,514.10	1,229.43	8,439,014	71,516	82.850
	17.5	1,011.0	42,455.64	1,287.90	8,834,370	74,865	82.822
	18.3	1,056.8	42,397.23	1,346.24	9,228,296	78,208	82.794
	19.1	1,102.7	42,338.86	1,404.71	9,622,576	81,544	82.766
	20.6	1,188.5	42,229.52	1,514.01	10,358,132	87,780	82.713
	21.4	1,234.2	42,171.26	1,572.23	10,749,156	91,095	82.685
	22.2	1,279.9	42,113.04	1,630.45	11,139,646	94,405	82.657
	23.0	1,325.6	42,054.86	1,688.66	11,529,533	97,707	82.629
	23.8	1,371.2	41,996.73	1,746.75	11,918,069	101,002	82.601
	24.6	1,416.9	41,938.63	1,804.97	12,306,959	104,291	82.573
	25.4	1,462.4	41,880.57	1,862.93	12,693,545	107,573	82.545
	27.0	1,553.5	41,764.58	1,978.98	13,466,014	114,116	82.489
	28.6	1,644.4	41,648.75	2,094.78	14,234,669	120,631	82.433
	29.4	1,689.8	41,590.89	2,152.61	14,617,731	123,879	82.405
	30.2	1,735.2	41,533.08	2,210.45	15,000,336	127,120	82.377
	31.8	1,825.9	41,417.57	2,325.99	15,763,021	133,582	82.321

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2360	33.3	1,910.8	41,309.42	2,434.14	16,474,995	139,615	82.269
	34.9	2,001.2	41,194.22	2,549.30	17,231,063	146,025	82.213
	36.5	2,091.5	41,079.19	2,664.33	17,984,176	152,408	82.158
	38.1	2,181.7	40,964.31	2,779.24	18,734,409	158,764	82.102
	40.0	2,288.6	40,828.10	2,915.41	19,620,710	166,277	82.036
	42.5	2,429.1	40,649.23	3,094.39	20,781,199	176,106	81.949
	45.0	2,569.2	40,470.75	3,272.87	21,933,343	185,870	81.863
	47.5	2,709.0	40,292.66	3,450.96	23,077,918	195,569	81.776
	50.0	2,848.5	40,114.96	3,628.66	24,214,955	205,205	81.689
	52.5	2,987.6	39,937.66	3,805.86	25,343,757	214,777	81.603
	55.0	3,126.5	39,760.75	3,982.80	26,465,955	224,286	81.517
	57.5	3,265.1	39,584.23	4,159.36	27,580,781	233,731	81.431
	60.0	3,403.4	39,408.10	4,335.54	28,688,268	243,114	81.344
2400	14.3	841.4	44,167.13	1,071.85	7,625,904	63,545	84.348
	15.1	888.1	44,107.55	1,131.34	8,043,793	67,032	84.320
	15.9	934.9	44,048.01	1,190.96	8,462,047	70,513	84.292
	16.7	981.6	43,988.51	1,250.45	8,878,817	73,987	84.264
	17.5	1,028.3	43,929.05	1,309.94	9,295,027	77,453	84.236
	18.3	1,074.9	43,869.63	1,369.30	9,709,757	80,913	84.208
	19.1	1,121.5	43,810.25	1,428.66	10,123,931	84,365	84.180
	19.8	1,162.3	43,758.33	1,480.64	10,486,159	87,381	84.155
	20.6	1,208.8	43,699.03	1,539.87	10,898,370	90,820	84.127
	21.4	1,255.3	43,639.76	1,599.11	11,310,098	94,252	84.099
	22.2	1,301.8	43,580.54	1,658.34	11,721,200	97,678	84.071
	23.0	1,348.3	43,521.36	1,717.58	12,131,821	101,096	84.043
	23.8	1,394.7	43,462.22	1,776.69	12,540,973	104,508	84.015
	24.6	1,441.1	43,403.11	1,835.80	12,949,573	107,912	83.987
	25.4	1,487.5	43,344.05	1,894.90	13,357,553	111,310	83.959
	27.0	1,580.1	43,226.05	2,012.87	14,170,248	118,084	83.903
	28.6	1,672.6	43,108.21	2,130.70	14,979,769	124,831	83.847
	29.4	1,718.8	43,049.34	2,189.55	15,383,255	128,194	83.819
	30.2	1,765.0	42,990.52	2,248.41	15,786,267	131,550	83.791
	31.8	1,857.3	42,873.00	2,365.99	16,589,679	138,242	83.736
	33.3	1,943.6	42,762.97	2,475.92	17,338,799	144,491	83.683
	34.9	2,035.7	42,645.77	2,593.25	18,136,270	151,129	83.628
	36.5	2,127.5	42,528.72	2,710.19	18,928,864	157,740	83.572
	37.0	2,156.2	42,492.17	2,746.75	19,176,223	159,801	83.554
	40.0	2,328.1	42,273.24	2,965.73	20,653,344	172,108	83.450
	42.5	2,471.0	42,091.22	3,147.77	21,875,477	182,291	83.363
	45.0	2,613.6	41,909.60	3,329.43	23,089,806	192,408	83.277

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Ø mm	Wall-thickness mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
2400	47.5	2,755.8	41,728.37	3,510.57	24,295,394	202,460	83.190
	50.0	2,897.8	41,547.53	3,691.46	25,494,146	212,447	83.103
	52.5	3,039.4	41,367.08	3,871.85	26,684,367	222,368	83.017
	55.0	3,180.8	41,187.03	4,051.97	27,867,677	232,225	82.931
	57.5	3,321.8	41,007.37	4,231.59	29,042,527	242,018	82.844
	60.0	3,462.5	40,828.10	4,410.83	30,209,775	251,747	82.758
2440	10.3	617.2	45,973.21	786.24	5,802,007	47,556	85.903
	11.1	664.9	45,912.43	847.01	6,246,359	51,199	85.875
	12.7	760.2	45,790.98	968.41	7,132,276	58,464	85.819
	13.1	784.1	45,760.64	998.85	7,354,053	60,275	85.805
	15.9	950.6	45,548.56	1,210.96	8,895,279	72,907	85.706
	16.3	974.3	45,518.30	1,241.15	9,114,056	74,704	85.692
	16.7	998.0	45,488.05	1,271.34	9,332,687	76,500	85.678
	17.1	1,021.8	45,457.81	1,301.66	9,552,129	78,293	85.664
	17.5	1,045.5	45,427.59	1,331.85	9,770,473	80,085	85.650
	20.6	1,229.1	45,193.67	1,565.73	11,457,075	93,912	85.541
2500	14.3	876.6	47,970.65	1,116.69	8,624,908	69,000	87.884
	15.1	925.4	47,908.56	1,178.85	9,099,184	72,790	87.856
	15.9	974.1	47,846.50	1,240.89	9,571,925	76,573	87.828
	16.7	1,022.8	47,784.49	1,302.93	10,044,056	80,348	87.799
	17.5	1,071.4	47,722.52	1,364.84	10,514,578	84,116	87.771
	18.3	1,120.0	47,660.59	1,426.75	10,984,495	87,877	87.743
	19.1	1,168.6	47,598.70	1,488.66	11,453,805	91,630	87.715
	19.8	1,211.1	47,544.57	1,542.80	11,863,716	94,908	87.691
	20.6	1,259.6	47,482.76	1,604.59	12,330,971	98,648	87.663
	21.4	1,308.1	47,420.98	1,666.37	12,797,547	102,380	87.635
	22.2	1,356.6	47,359.24	1,728.15	13,263,521	106,105	87.606
	23.0	1,405.0	47,297.55	1,789.81	13,727,973	109,823	87.578
	23.8	1,453.4	47,235.89	1,851.46	14,191,748	113,534	87.550
	24.6	1,501.8	47,174.28	1,913.12	14,655,002	117,237	87.522
	25.4	1,550.1	47,112.70	1,974.65	15,116,663	120,933	87.494
	27.0	1,646.7	46,989.67	2,097.71	16,038,195	128,304	87.438
	28.6	1,743.2	46,866.80	2,220.64	16,956,352	135,645	87.383
	29.4	1,791.3	46,805.43	2,281.91	17,413,052	139,305	87.355
	30.2	1,839.5	46,744.10	2,343.31	17,870,153	142,958	87.327
	31.8	1,935.7	46,621.55	2,465.86	18,780,676	150,242	87.271
	33.3	2,025.8	46,506.81	2,580.64	19,631,308	157,045	87.218
	34.9	2,121.7	46,384.57	2,702.80	20,534,307	164,273	87.163
	36.5	2,217.6	46,262.50	2,824.97	21,435,041	171,473	87.107

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Ø mm	Wall-thicknes mm	G kg/m	A cm ²	S cm ²	I cm ⁴	I/V cm ³	ρ cm
2500	38.1	2,313.3	46,140.58	2,946.88	22,331,468	178,645	87.051
	40.0	2,426.7	45,996.02	3,091.34	23,390,624	187,125	86.985
	42.5	2,575.8	45,806.15	3,281.27	24,778,152	198,221	86.898
	45.0	2,724.5	45,616.67	3,470.70	26,156,280	209,249	86.811
	47.5	2,873.0	45,427.59	3,659.87	27,526,855	220,209	86.725
	50.0	3,021.1	45,238.90	3,848.54	28,888,103	231,100	86.638
	52.5	3,168.9	45,050.60	4,036.82	30,240,891	241,924	86.552
	55.0	3,316.4	44,862.69	4,224.71	31,585,253	252,679	86.465
	57.5	3,463.6	44,675.18	4,412.23	32,921,372	263,368	86.379
	60.0	3,610.5	44,488.06	4,599.36	34,249,134	273,990	86.293
2520	21.8	1,343.1	48,164.95	1,710.96	13,348,650	105,940	88.328
	22.2	1,367.5	48,133.83	1,742.04	13,586,818	107,833	88.314
2540	13.5	841.2	49,599.18	1,071.59	8,550,464	67,323	89.326
	13.9	866.0	49,567.61	1,103.18	8,799,756	69,285	89.312
	14.3	890.7	49,536.04	1,134.65	9,047,934	71,245	89.298
	21.8	1,353.9	48,946.07	1,724.71	13,672,222	107,651	89.035
2786	18.0	1,228.8	59,395.69	1,565.35	14,992,430	107,621	97.865
2845	16.3	1,137.1	62,121.75	1,448.54	14,488,676	101,852	100.011
	16.7	1,164.9	62,086.42	1,483.95	14,838,684	104,308	99.997
	17.5	1,220.3	62,015.77	1,554.52	15,535,606	109,212	99.969