

Stainless Steel Tube Sizing

Round Tube

Size (mm)	Product Type & Gauge (mm)		Finish	Nom. Linear Mass (kg/m)				6.0m Lengths per pack
	304L	316L		0.9	1.2	1.6	2.0	
6.35			AWBP	0.13				50
7.95			AWBP	0.16				50
9.5			AWBP	0.19	0.25	0.31		50
12.7		1.6	AWBP	0.27	0.34	0.44		50
15.9		1.6	AWBP	0.33	0.43	0.56		50
19.1		1.6	AWBP	0.41	0.53	0.69	0.88	50
22.2			AWBP	0.47	0.61	0.81	1.04	50
25.4		1.6	AWBP	0.55	0.72	0.94	1.22	50
31.8		1.6	CWBP	0.69	0.92	1.19	1.54	50
38.1		1.6	CWBP	0.83	1.10	1.44	1.87	50
44.5		1.6	CWBP	0.95	1.29	1.69	2.15	50
50.8	1.6	1.6	CWBP	1.14	1.47	1.94	2.41	50
63.5	1.6	1.6	CWBP		1.84	2.44	3.06	28
76.2	1.6	1.6	CWBP		2.17	2.94	3.86	28
101.6	1.6	1.6	CWBP			3.46	4.91	18
127.0	1.6	1.6	CWBP			4.96	6.15	8
152.4		1.6, 2.0	CWBP			5.97	7.46	8
203.2		2.0	CWBP				9.96	5

Custom lengths available. Any products not shown in the stocked (bolded) items are available ex-mill rolling in most wall thicknesses. Kg/m denotes what is possible to manufacture in each wall thickness. 2.5mm, 321 and other austenitic grades can be manufactured. MOQ's apply.

Specifications

Minimum Mechanical Properties (Base Material)

Yield strength	Tensile strength	El % on Lo = 50mm
170 MPa	485 MPa	40

304L Typical Chemical Composition % (Ladle Analysis)

C	S	P	Mn	Si	Cr	Ni	Mo	N
0.024	0.002	0.028	1.390	0.330	18.200	8.000	0.000	0.070

316L Typical Chemical Composition % (Ladle Analysis)

C	S	P	Mn	Si	Cr	Ni	Mo	N
0.024	0.001	0.026	1.350	0.270	16.690	10.030	2.030	0.040

Tolerances

External Dimensions (OD)	±0.13mm <31.8, ±0.25mm <76.2, ±0.38mm <101.6, ±0.50mm <203.2
Wall Thickness	±5% (<2.0mm) of nominal wall thickness
Out-of-roundness (Ovality)	Refer OD tolerances & Ovality heading
Straightness	<2.0mm over 1000mm
Length	-0,+40mm. Exact length ±1mm by arrangement

Ovality

Difference between max and minimum diameters at any one cross section to be within OD tolerances, i.e ±0.13mm <31.8mm. Our in-house R&D team have developed industry leading, proprietary in-line processes to control ovality and provide exceptional roundness in our tube.

