

Stainless Steel Seamless Tubing

Fractional and Metric Sizes

- Standard instrumentation tubing
- Chemically cleaned and passivated tubing
- Thermocouple-cleaned tubing

Standard Instrumentation Tubing

Material Standards

Grade	UNS	ASTM	ASME
316 / 316L	S31600 / S31603	A213/ A269	SA213
304 / 304L	S30400 / S30403		
321	S32100		

Chemical Composition

Element	Material Grade				
	316	316L	304	304L	321
C	0.05	0.030	0.04	0.03	0.05
Si	0.6	0.4	0.4	0.5	0.5
Mn	1.5	1.7	1.3	1.3	1.3
P	0.04 max	0.04 max	0.04 max	0.03 max	0.03 max
S	0.015 max	0.015 max	0.015 max	0.015 max	0.03 max
Cr	17	17.5	18.5	18.5	17.5
Mo	2.1	2.6	–	–	–
Ni	11.5	13	9.5	10	10.5
N	0.1	0.1	0.1	0.1	–

Features

- Available in sizes from 1/8 to 2 in. outside diameter
- Marked to indicate size, material, specifications, and heat number

Ordering Information and Dimensions

Select an ordering number

Tube OD in.	Nominal Wall Thickness in.	Ordering Number	Nominal Length ft	Weight lb/ft
316 / 316L Seamless				
1/8	0.028	T102x028-20-B100	20	0.029
	0.035	T104x035-20-B100		0.080
		T104x049-20-B100		0.105
1/4	0.049	T104x049-20-B100		0.128
	0.065	T104x065-20-B100		0.127
		T106x035-20-B100		0.171
3/8	0.049	T106x049-20-B100		0.215
	0.065	T106x065-20-B100		0.174
		T108x035-20-B100		0.236
1/2	0.049	T108x049-20-B100		0.302
	0.065	T108x065-20-B100		0.389
		T110x065-20-B100		0.476
5/8	0.065	T110x065-20-B100		0.813
3/4	0.065	T112x065-20-B100		1.187
1	0.083	T116x083-20-B100		1.473
	0.095	T120x095-20-B100		1.792
1 1/4	0.120	T120x120-20-B100		1.981
	0.120	T124x120-20-B100		2.705
1 1/2	0.134	T124x134-20-B100	3.686	
	0.134	T132x134-20-B100		
2	0.188	T132x188-20-B100		
304 / 304L Seamless				
1/4	0.035	T104x035-20-B110	20	0.080
3/8	0.035	T106x035-20-B110		0.127
1/2	0.035	T108x035-20-B110		0.174
321 Seamless				
1/4	0.035	T104x035-20-B120	20	0.080
3/8	0.035	T106x035-20-B120		0.127
1/2	0.035	T108x035-20-B120		0.174

Ordering Information

Standard Material is 316 SS, add material designator as the suffix to the basic ordering number to get the complete ordering number.
Example: T106x035-20-B110 for 304 SS material Tube.

Material	Designator
316 SS	-B100
316L SS	-B101
304 SS	-B110
304L SS	-B101
321 SS	-B120

Stainless Steel Seamless Tubing

Metric Sizes

- Standard instrumentation tubing
- Chemically cleaned and passivated tubing
- Thermocouple-cleaned tubing

Features

- Available in sizes from 3 to 25 mm outside diameter
- Marked to indicate size, material, specifications, and heat number

Ordering Information and Dimensions

Select an ordering number

Nominal OD mm	Nominal Wall Thickness mm	Ordering Number	Nominal Length m	Weight kg/m	Allowable Working Pressure bar
316 / 316L Seamless					
6	1.0	T206x1.0-6M-B100	6	0.125	420
	1.5	T206x1.5-6M-B100		0.169	710
8	1.0	T208x1.0-6M-B100		0.175	310
	1.5	T208x1.5-6M-B100		0.244	520
10	1.0	T210x1.0-6M-B100		0.225	240
	1.5	T210x1.5-6M-B100		0.319	400
12	1.0	T212x1.0-6M-B100		0.275	200
	1.5	T212x1.5-6M-B100		0.394	330
	2.0	T212x2.0-6M-B100		0.500	470
14	1.0	T214x1.0-6M-B100		0.330	162
	1.5	T214x1.5-6M-B100		0.470	273
	2.0	T214x2.0-6M-B100		0.600	384
16	1.0	T216x1.0-6M-B100		0.375	140
	1.5	T216x1.5-6M-B100		0.507	230
	2.0	T216x2.0-6M-B100		0.651	330
18	1.0	T218x1.0-6M-B100		0.425	120
	1.5	T218x1.5-6M-B100		0.619	200
	2.0	T218x2.0-6M-B100		0.801	290
20	2.0	T220x2.0-6M-B100		0.901	260
22	2.0	T222x2.0-6M-B100		1.00	230
25	2.0	T225x2.0-6M-B100	1.15	200	
	2.5	T225x2.5-6M-B100	1.41	260	

Ordering Information

Standard Material is 316 SS, add material designator as the suffix to the basic ordering number to get the complete ordering number.

Example: T214x1.5-6M-B120 for 321 SS material Tube.

Material	Designator
316 SS	-B100
316L SS	-B101
304 SS	-B110
304L SS	-B101
321 SS	-B120