

Stainless Steel Titanium Alloyed Tubing

Metric Sizes



Seamless Tubing

- 3 to 25 mm OD
- 316L stainless steel titanium alloyed
- DIN 17458

Steel Grades and Chemical Composition Percentages

AISI	UNS	SS	AFNOR	W.-NR.	C	Cr	Ni	Mo	Ti
316L (modified)	S31635	2350	Z6CNDT17-12	1.4571	≤ 0.05	17	12	2.1	0.25 to 0.80

Standards

DIN	TC
17458	1

Ordering Information

Nominal OD mm	Nominal Wall Thickness, mm	Ordering Number	Weight kg/m	Allowable Working Pressure ^② , bar
3	0,5 ^③	316TI-T3M-S-0,5M-6ME	0,021	320
	0,7	316TI-T3M-S-0,7M-6ME	0,027	540
6	1,0	316TI-T6M-S-1,0M-6ME	0,125	430
	1,5	316TI-T6M-S-1,5M-6ME	0,169	700
8	1,0	316TI-T8M-S-1,0M-6ME	0,175	320
	1,5	316TI-T8M-S-1,5M-6ME	0,244	530
10	1,0	316TI-T10M-S-1,0M-6ME	0,225	260
	1,5	316TI-T10M-S-1,5M-6ME	0,319	420
12	1,0	316TI-T12M-S-1,0M-6ME	0,275	210
	1,5	316TI-T12M-S-1,5M-6ME	0,394	350
	2,0	316TI-T12M-S-2,0M-6ME	0,500	490
16	1,0	316TI-T16M-S-1,0M-6ME	0,375	160
	1,5	316TI-T16M-S-1,5M-6ME	0,507	260
	2,0	316TI-T16M-S-2,0M-6ME	0,651	360
18	1,0	316TI-T18M-S-1,0M-6ME	0,425	140
	1,5	316TI-T18M-S-1,5M-6ME	0,619	230
	2,0	316TI-T18M-S-2,0M-6ME	0,801	320
20	2,0	316TI-T20M-S-2,0M-6ME	0,901	290
22	2,0	316TI-T22M-S-2,0M-6ME	1,00	260
25	2,0	316TI-T25M-S-2,0M-6ME	1,15	230
	2,5	316TI-T25M-S-2,5M-6ME	1,41	290

② Allowable working pressure based on equations from DIN 2413 and a yield strength of 245 MPa from DIN 17458.

③ Not recommended for use with Swagelok tube fittings.

Tools and Accessories

See the *Swagelok Tools and Accessories* catalog for more information.



Tube sawing
guide



Tube cutter

Support
system



Tube bender



Tube deburring
tool

Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.