

6-Moly Seamless Tubing



Features

- 6-moly seamless tubing provides pitting and crevice corrosion resistance in aggressive chloride-bearing media with higher strength than traditional austenitic stainless steels
- 6-moly seamless tubing has been rated for use with 6-moly and 316 stainless steel Swagelok tube fittings
- Pitting resistance equivalent (PRE) value is ≥ 42.5
- Meets NORSOK M650
- Sizes include 1/4, 3/8, 1/2, 3/4, and 1 in. and 6, 8, 10, 12, 18, 20, and 25 mm outside diameter
- Tube markings include size, material type/grade, specifications, heat number, and other information

Material Standards

Grade	UNS (EN)	ASTM
Alloy 254	S31254 (1.4547)	A269

Chemical Composition

Element	Composition nominal wt. %
Chromium	20.0
Nickel	18.0
Molybdenum	6.1
Manganese	≤ 1.0
Silicon	≤ 0.80
Carbon	≤ 0.020
Sulfur	≤ 0.010
Phosphorous	≤ 0.030
Nitrogen	0.2
Copper	0.7

Ordering Information and Dimensions

Select an ordering number.

Fractional Tube OD and Length

Tube OD in.	Nominal Wall Thickness in.	Ordering Number	Nominal Length ft (m)	Weight lb/ft (kg/m)
1/4	0.028	254-T4-S-028-20-NOR	20 (6.1)	0.07 (0.10)
	0.035	254-T4-S-035-20-NOR		0.08 (0.12)
	0.049	254-T4-S-049-20-NOR		0.11 (0.16)
	0.065	254-T4-S-065-20-NOR		0.13 (0.19)
3/8	0.035	254-T6-S-035-20-NOR		0.13 (0.19)
	0.049	254-T6-S-049-20-NOR		0.18 (0.27)
	0.065	254-T6-S-065-20-NOR		0.22 (0.33)
	0.083	254-T6-S-083-20-NOR		0.26 (0.39)
1/2	0.035	254-T8-S-035-20-NOR		0.18 (0.27)
	0.049	254-T8-S-049-20-NOR		0.24 (0.36)
	0.065	254-T8-S-065-20-NOR		0.31(0.46)
	0.083	254-T8-S-083-20-NOR		0.38 (0.57)
3/4	0.065	254-T12-S-065-20-NOR		0.49 (0.73)
	0.083	254-T12-S-083-20-NOR		0.60 (0.89)
	0.095	254-T12-S-095-20-NOR		0.68 (1.01)
1	0.065	254-T16-S-065-20-NOR		0.66 (0.98)
	0.083	254-T16-S-083-20-NOR	0.83 (1.24)	
	0.095	254-T16-S-095-20-NOR	0.94 (1.40)	
	0.109	254-T16-S-109-20-NOR	1.06 (1.58)	

Fractional Tube OD and Metric Length

Tube OD in.	Nominal Wall Thickness in.	Ordering Number	Nominal Length m (ft)	Weight lb/ft (kg/m)
1/4	0.028	254-T4-S-028-6ME-NOR	6 (19.7)	0.07 (0.10)
	0.035	254-T4-S-035-6ME-NOR		0.08 (0.12)
	0.049	254-T4-S-049-6ME-NOR		0.11 (0.16)
	0.065	254-T4-S-065-6ME-NOR		0.13 (0.19)
3/8	0.035	254-T6-S-035-6ME-NOR		0.13 (0.19)
	0.049	254-T6-S-049-6ME-NOR		0.18 (0.27)
	0.065	254-T6-S-065-6ME-NOR		0.22 (0.33)
	0.083	254-T6-S-083-6ME-NOR		0.26 (0.39)
1/2	0.035	254-T8-S-035-6ME-NOR		0.18 (0.27)
	0.049	254-T8-S-049-6ME-NOR		0.24 (0.36)
	0.065	254-T8-S-065-6ME-NOR		0.31(0.46)
	0.083	254-T8-S-083-6ME-NOR		0.38 (0.57)
3/4	0.065	254-T12-S-065-6ME-NOR		0.49 (0.73)
	0.083	254-T12-S-083-6ME-NOR		0.60 (0.89)
	0.095	254-T12-S-095-6ME-NOR		0.68 (1.01)
1	0.065	254-T16-S-065-6ME-NOR		0.66 (0.98)
	0.083	254-T16-S-083-6ME-NOR	0.83 (1.24)	
	0.095	254-T16-S-095-6ME-NOR	0.94 (1.40)	
	0.109	254-T16-S-109-6ME-NOR	1.06 (1.58)	

Ordering Information and Dimensions

Select an ordering number.

Metric Tube OD and Length

Tube OD mm	Nominal Wall Thickness mm	Ordering Number	Nominal Length m (ft)	Weight lb/ft (kg/m)
6	0.8	254-T6M-S-0.8M-6ME-NOR	6 (19.7)	0.07 (0.10)
	1.0	254-T6M-S-1.0M-6ME-NOR		0.08 (0.12)
	1.5	254-T6M-S-1.5M-6ME-NOR		0.11 (0.16)
8	1.0	254-T8M-S-1.0M-6ME-NOR		0.12 (0.18)
	1.2	254-T8M-S-1.2M-6ME-NOR		0.14 (0.21)
	1.5	254-T8M-S-1.5M-6ME-NOR		0.17 (0.25)
10	1.0	254-T10M-S-1.0M-6ME-NOR		0.15 (0.22)
	1.2	254-T10M-S-1.2M-6ME-NOR		0.18 (0.27)
	1.5	254-T10M-S-1.5M-6ME-NOR		0.22 (0.33)
	1.8	254-T10M-S-1.8M-6ME-NOR		0.25 (0.37)
	2.0	254-T10M-S-2.0M-6ME-NOR		0.27 (0.40)
12	1.0	254-T12M-S-1.0M-6ME-NOR		0.18 (0.27)
	1.2	254-T12M-S-1.2M-6ME-NOR		0.22 (0.33)
	1.5	254-T12M-S-1.5M-6ME-NOR		0.27 (0.40)
	1.8	254-T12M-S-1.8M-6ME-NOR		0.31 (0.46)
	2.0	254-T12M-S-2.0M-6ME-NOR		0.34 (0.51)
18	1.5	254-T18M-S-1.5M-6ME-NOR		0.42 (0.62)
	2.0	254-T18M-S-2.0M-6ME-NOR		0.54 (0.80)
	2.5	254-T18M-S-2.5M-6ME-NOR		0.66 (0.98)
	2.8	254-T18M-S-2.8M-6ME-NOR		0.72 (1.07)
20	1.5	254-T20M-S-1.5M-6ME-NOR	0.47 (0.70)	
	2.0	254-T20M-S-2.0M-6ME-NOR	0.79 (1.18)	
	2.8	254-T20M-S-2.8M-6ME-NOR	0.81 (1.20)	
25	2.0	254-T25M-S-2.0M-6ME-NOR	0.78 (1.16)	
	2.5	254-T25M-S-2.5M-6ME-NOR	0.95 (1.41)	
	2.8	254-T25M-S-2.8M-6ME-NOR	1.05 (1.56)	

Fittings

See the following catalogs for more information: *Gaugeable Tube Fittings and Adapter Fittings*, MS-01-140, *Tubing Data*, MS-01-107 and *Tubing Data Sheet, Engineered Combinations*, MS-06-117.



Swagelok Orbital Welding System

See the *Swagelok Welding System M200 Power Supply* catalog, MS-02-342, for more information.



Tubing Tools and Accessories

See the *Swagelok Tubing Tools and Accessories* catalog, MS-01-179, for more information.



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.

Warranty Information

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit swagelok.com or contact your authorized Swagelok representative.