

# 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  $\geq 42.5$
- 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	$\leq 1.0$
Silicon	$\leq 0.80$
Carbon	$\leq 0.020$
Sulfur	$\leq 0.010$
Phosphorous	$\leq 0.030$
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: *Gageable 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

All tubing listed in this catalog are backed by the tube manufacturer's warranty and not The Swagelok Limited Lifetime Warranty. For more information contact your authorized Swagelok representative.