Alloy 2507 Seamless Super Duplex Tubing

Fractional Sizes

Features

- Alloy 2507 material provides excellent corrosion resistance in chloride-containing environments.
- All Alloy 2507 tubing, tube fittings, and weld fittings offered by Swagelok are made from a controlled-chemistry Alloy 2507 material with a minimum pitting resistance equivalent (PRE) value of 42.5.
- Sizes include 1/4, 3/8, 1/2, 5/8, 3/4, and 1 in. outside diameter.
- Tubing nominal wall thickness meets ASTM A789.
- Tube markings include size, material type/grade, specifications, heat number, and other information.

Material Standards

Grade	UNS	ASTM
Alloy 2507 (PRE 42.5)	S32750	A789

Chemical Composition

Element	Composition wt. %
Chromium	25.0
Nickel	7.0
Molybdenum	4.0
Manganese	1.2 max
Silicon	0.8 max
Carbon	0.030 max
Sulfur	0.02
Phosphorous	0.035 max
Nitrogen	0.3

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Ordering Information, Dimensions, and Pressure Ratings

Select an ordering number.

Tube OD in.	Nominal Wall Thickness in.	Ordering Number	Nominal Length ft (m)	Weight lb/ft (kg/m)	ASME B31.3 Pressure Rating psig (bar)	ASME B31.3 Chapter IX Pressure Rating psig (bar)
1/4	0.035	2507-T4-S-035-20	20 (6.1)	0.08 (0.12)	10 000 (690)	12 300 (850)
	0.049	2507-T4-S-049-20		0.10 (0.15)	15 000 (1040)①	19 000 (1310)①
	0.065②	2507-T4-S-065-20		0.13 (0.19)	19 800 (1370)	26 200 (1810)
3/8	0.049	2507-T6-S-049-20		0.17 (0.25)	10 100 (700)①	12 400 (860)①
	0.065	2507-T6-S-065-20		0.21 (0.31)	12 700 (880)	15 800 (1090)
	0.083②	2507-T6-S-083-20		0.26 (0.39)	16 800 (1160)	21 400 (1480)
1/2	0.065	2507-T8-S-065-20		0.30 (0.45)	10 100 (700)①	12 400 (860)①
	0.083	2507-T8-S-083-20		0.36 (0.54)	12 900 (890)	16 200 (1120)
	0.095②	2507-T8-S-095-20		0.41 (0.61)	15 300 (1060)①	19 400 (1340)①
5/8	0.083	2507-T10-S-083-20		0.48 (0.71)	10 100 (700)	12 400 (860)
	0.095②	2507-T10-S-095-20		0.53 (0.79)	12 100 (840)①	15 000 (1040)①
3/4	0.083	2507-T12-S-083-20		0.58 (0.86)	8 500 (590)①	10 400 (720)①
	0.095	2507-T12-S-095-20		0.66 (0.98)	10 000 (690)①	12 400 (860)①
	0.109②	2507-T12-S-109-20		0.74 (1.10)	11 100 (770)	13 900 (960)
1③	0.109	2507-T16-S-109-20		1.02 (1.52)	8 100 (560)	10 000 (690)
	0.120	2507-T16-S-120-20		1.12 (1.67)	9 100 (630)	11 100 (770)

① Pressure ratings based on special wall thickness tolerance for Swagelok® Alloy 2507 tubing.
② Not suitable for use with Swagelok tube fittings.
③ Swagelok tube fittings not available.

Fittings

See the Swagelok *Gaugeable Alloy 2507 Super Duplex Tube Fittings* and Swagelok *Alloy 2507 Super Duplex Weld Fittings* catalogs, MS-01-174 and MS-01-173, for more information.

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.

⚠ **Do not mix components of other materials with Alloy 2507 super duplex tubing.**

Steel bend shoes are required to bend Alloy 2507 super duplex tubing with a Swagelok bench top tube bender.

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.

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