



## STAINLESS STEEL TUBING

- ⊗ 316/ 316L annealed stainless steel tubing
- ⊗ 1/16" OD – 2" OD & various wall thicknesses
- ⊗ Seamless with a bright annealed finish
- ⊗ 5ft, 10ft, and 20ft lengths
- ⊗ Available with standard or oxygen cleaning
- ⊗ All tubing is delivered deburred, capped & bagged

### Conforms to Specifications

ASTM A269, ASTM A213, ASME SA213

### Chemical Composition

Carbon	.030% max
Chromium	16-18%
Manganese	2% max
Molybdenum	2-3%
Nickel	12-14%
Silicon	.75% max
Sulfur	.015% max

### Cleaning

- Standard tubing is cleaned to remove manufacturing fluids, loose particles and debris
- Oxygen cleaned tubing is cleaned to ASTM G93 Level C & CGA 4.1 specifications

### Cutting & Deburring

5FT & 10FT Lengths are cut using a non-lubricated cold saw to eliminate potential contamination of the inside diameter

Inside & outside diameters are deburred for immediate use

### Mechanical Properties

Yield Strength	30 ksi min
Tensile Strength	75 ksi min
Elongation (2" min)	35%
Hardness (Rockwell B Scale)	90 HRB max

### Dimensional Tolerances

Outside Diameter	+/- 5%
Wall thickness	+/- 10%

### Elevated Temperature ratings

°F	°C	WP (psi) derating factor
400	204	.95
600	315	.85
800	476	.80
1000	537	.75

### Packaging

- All tubing is protected with vinyl end caps, bagged, and bundled for easy transport
- Protective cardboard shipping tubes are available upon request



## Pressure Ratings

Tube OD (inches)	Wall Thickness (inches)	PART NUMBER	Working Pressure (psi)	Burst Pressure (psi)
<b>1/4</b>	.035	316L-1/4-035-	5100	20400
	.049	316L-1/4-049-	7500	30000
	.065	316L-1/4-065-	10200	40800
<b>3/8</b>	.035	316L-3/8-035-	3300	13200
	.049	316L-3/8-049-	4800	19200
	.065	316L-3/8-065-	6500	26000
<b>1/2</b>	.035	316L-1/2-035-	2600	10400
	.049	316L-1/2-049-	3700	14800
	.065	316L-1/2-065-	5100	20400
<b>5/8</b>	.049	316L-5/8-049-	2900	11600
	.065	316L-5/8-065-	4000	16000
<b>3/4</b>	.049	316L-3/4-049-	2400	9600
	.065	316L-3/4-065-	3300	13200
<b>1</b>	.065	316L-1-065-	2400	9600
	.083	316L-1-083-	3100	12400
<b>1-1/4</b>	.120	316L-1-1/4-120-	3600	14400
<b>1-1/2</b>	.120	316L-1-1/2-120-	3000	12000
<b>2</b>	.134	316L-2-134-	2500	10000

\*Pressure ratings are calculated from S values as specified by ASME B31.3 for Process Piping

### Ordering Info:

**316L - 1/2 - 049 - 10FT - 02**

Select a tube OD and wall thickness from the table above

Select a length:  
5FT, 10FT or 20FT

Omit= Standard cleaning  
02= Oxygen cleaned

