



Stainless Steel 316/316L UNS S31600 / S31603

Alloy Composition				
	316		316L	
Element	Min.	Max	Min.	Max
C	-	0.08	-	0.035 ^A
Mn	-	2.00	-	2.00
Si	-	1.00	-	1.00
Cr	16.0	18.0	16.0	18.0
Ni	10.0	14.0	10.0	14.0
Mo	2.00	3.00	2.00	3.00
P		0.045	-	0.045
S		0.030		0.030

A – For small diameters or thin walls carbon maximum of 0.04% is necessary and allowed per ASTM A213

SEAMLESS TUBE

Our 316 and 316L seamless tube is supplied in the annealed condition and made to ASTM A213, and A 269 specifications. If the tube OD is ½” or less, it is also made to ASTM A632 upon request.

Our stringent quality policies and inspection practices ensure that all seamless tube purchased from T2 Alloys Limited will be of good quality and delivered to the requirements within the aforementioned specifications.

For maximum working pressure rating of specific sizes, please contact our offices to speak to one of our staff.

Mechanical Properties				
	UTS	0.2% Yield	% Elongation	Hardness
316	75 ksi min.	30 ksi min.	35 % min.	90 HRB max.
316L	70 ksi min.	25 ksi min.	35 % min.	90 HRB max.

Physical Properties (annealed)			
		316	316L
Density @ Room Temperature (lb/in. ³)		0.29	0.29
Elastic Modulus (10 ⁶ psi)		28.0	28.0
Specific Heat, 32°F to 212°F (Btu/lb · °F)		0.12	0.12
Electrical Resistivity (μΩ · m)		740	740
Magnetic Permeability (approximate)		1.02	1.02
Coefficient of Thermal Expansion (μ in./in. · °F)	32°F to 212°F	8.8	8.8
	32°F to 600°F	9.0	9.0
	32°F to 1000°F	9.7	9.7
Thermal Conductivity (Btu/ft · h · °F)	@ 212°F	9.4	9.4
	@ 932°F	12.4	12.4

Limitation of Liability

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