

# Stainless Steel (inc. High Performance) - 1.4307 / 304L

**Seamless Tube**

**Properties**

Stock			Chemical Properties	
OD (mm)	Wall (mm)	Weight/m (Kg)	Element	Chemical Composition %
ASTM A269			Carbon (C)	0.0 - 0.03
6	1.0	0.13	Chromium (Cr)	17.5 - 19.5
6	1.5	0.17	Manganese (Mn)	0.0 - 2.0
1/4 "	20G	0.13	Silicon (Si)	0.0 - 1.0
8	1.0	0.24	Phosphorus (P)	0.0 - 0.05
8	1.5	0.30	Sulphur (S)	0.0 - 0.02
8	2.0	0.34	Nickel (Ni)	8.0 - 10.50
3/8 "	1.63G	0.33	Iron (Fe)	Balance
10	1.0	0.23	Above properties are for 1.4307	
10	1.5	0.32	1.4307/304L also corresponds to the following designation 304S11	
10	2.0	0.40		
12	1.0	0.28	<b>Mechanical Properties</b>	
12	1.5	0.39	<b>Property</b>	<b>Value</b>
12	2.0	0.50	Tensile Strength	500 to 670 MPa
1/2 "	18G	0.35	Elongation	45% min
14	1.0	0.33	Compressive Strength	200 MPa
14	1.5	0.47	Above properties are for 1.4307	
14	2.0	0.60	1.4301/304 also corresponds to the following designation 304S11	
15	1.0	0.35		
15	1.5	0.51	<b>Physical Properties</b>	
5/8 "	20G	0.34	<b>Property</b>	<b>Value</b>
5/8 "	18G	0.45	Density	8.00 g/cm <sup>3</sup>
5/8 "	16G	0.58	Melting Point	1450°C
16	1.5	0.45	Thermal Expansion	17.2 x 10 <sup>-6</sup> /K
16	2.0	0.70	Modulus of Elasticity	193 GPa
18	1.0	0.43	Thermal Conductivity	16.2 W/m.K
18	1.5	0.62	Electrical Resistivity	0.072 x 10 <sup>-6</sup> Ω.m
18	2.0	0.80	1.4307/304L also corresponds to the following designation 304S11	
3/4 "	20G	0.42		
3/4 "	16G	0.71		
20	1.0	0.48		
20	1.5	0.70		
20	2.0	0.90		
22	1.0	0.53		
22	1.5	0.63		
22	2.0	0.77		
25	1.5	0.88		
25	2.0	1.15		
1"	18G	0.74		
28	1.5	1.00		

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