

Stainless Steel (inc. High Performance) - 1.4404 / 316L

Hexagon Bar

Properties

Stock		Chemical Properties	
Size A/F (in)	Weight/m (Kg)	Element	Chemical Composition %
0.250	0.27	Carbon (C)	0.0 - 0.03
7mm	0.33	Chromium (Cr)	16.50 - 18.50
8mm	0.44	Molybdenum (Mo)	2.0 - 2.5
0.312	0.46	Silicon (Si)	0.0 - 1.0
0.375	0.64	Phosphorus (P)	0.0 - 0.05
10mm	0.68	Sulphur (S)	0.0 - 0.01
11mm	0.82	Nickel (Ni)	10.0 - 13.0
0.437	0.85	Manganese (Mn)	0.0 - 2.0
0.445	0.87	Iron (Fe)	Balance
0.500	1.11	Above properties are for 1.4404	
13mm	1.15	1.4404/316L also corresponds to the following designation 316S11	
0.525	1.21		
14mm	1.32		
0.562	1.39		
0.600	1.56		
0.625	1.71		
17mm	1.94		
0.687	2.07		
0.710	2.20		
19mm	2.45		
0.750	2.50		
0.812	2.89		
0.820	2.90		
22mm	3.27		
0.875	3.35		
0.920	3.69		
0.937	3.84		
24mm	3.92		
1.000	4.38		
1.010	4.40		
27mm	4.98		
1.100	5.22		
1.125	5.54		
30mm	6.10		
1.200	6.23		
1.250	6.85		
1.300	7.23		
1.375	8.28		
36mm	8.76		
1.480	9.37		
1.750	13.42		
1.860	15.04		

Mechanical Properties	
Property	Value
Properties below are for 1.4404 (316L) which also corresponds to 316S11	
Proof Stress	220 min MPa
Tensile Strength	520 - 680 MPa
Elongation A50 mm	40% min

Physical Properties	
Property	Value
Density	8.00 g/cm ³
Melting Point	1400°C
Thermal Expansion	15.9 x 10 ⁻⁶ /K
Modulus of Elasticity	193 GPa
Thermal Conductivity	16.3 W/m.K
Electrical Resistivity	0.074 x 10 ⁻⁶ Ω.m

1.4404/316L also corresponds to the following designation 316S11	
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50mm	16.94
2.000	17.53
2.050	18.38
2.220	21.65
2.375	25.17
2.750	33.32
All sizes available in Cold Drawn H11	

Disclaimer

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