

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

## Seamless Butt Weld 90 deg L/R Elbows

## Properties

Stock			Chemical Properties	
NB (in)	SCH	Weight/m (Kg)	Element	Chemical Composition %
1/2	10S	0.11	Carbon (C)	0.0 - 0.03
1/2	40S	0.14	Chromium (Cr)	16.50 - 18.50
1/2	80S	0.18	Molybdenum (Mo)	2.0 - 2.5
3/4	10S	0.07	Silicon (Si)	0.0 - 1.0
3/4	40S	0.08	Phosphorus (P)	0.0 - 0.05
3/4	80S	0.10	Sulphur (S)	0.0 - 0.01
1	10S	0.11	Nickel (Ni)	10.0 - 13.0
1	40S	0.15	Manganese (Mn)	0.0 - 2.0
1	80S	0.19	Iron (Fe)	Balance
1 1/4	10S	0.16	Above properties are for 1.4404	
1 1/4	40S	0.21	1.4404/316L also corresponds to the following designation 316S11	
1 1/2	10S	0.22		
1 1/2	40S	0.28		
1 1/2	80S	0.49		
2	10S	0.48		
2	40S	0.36		
2	80S	0.89		
2 1/2	10S	0.52		
2 1/2	40S	0.92		
3	10S	0.84		
3	40S	1.49		
3	80S	2.74		
4	10S	1.38		
4	40S	2.65		
4	80S	5.34		
5	10S	2.37		
6	10S	3.36		
6	40S	6.87		
8	10S	6.57		

  

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 <sup>3</sup>
Melting Point	1400°C
Thermal Expansion	15.9 x 10 <sup>-6</sup> /K
Modulus of Elasticity	193 GPa
Thermal Conductivity	16.3 W/m.K
Electrical Resistivity	0.074 x 10 <sup>-6</sup> Ω.m
1.4404/316L also corresponds to the following designation 316S11	

## Disclaimer

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