

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

## Flanges R/F Slip on & Blind

## Properties

Stock		Chemical Properties	
NB (in)	Pressure Rating	Element	Chemical Composition %
ASTM/ASME SA182 ANSI B16.5		Carbon (C)	0.0 - 0.03
1/2	150	Chromium (Cr)	16.50 - 18.50
1/2	300	Molybdenum (Mo)	2.0 - 2.5
3/4	150	Silicon (Si)	0.0 - 1.0
3/4	300	Phosphorus (P)	0.0 - 0.05
1	150	Sulphur (S)	0.0 - 0.01
1	300	Nickel (Ni)	10.0 - 13.0
1 1/4	150	Manganese (Mn)	0.0 - 2.0
1 1/4	300	Iron (Fe)	Balance
1 1/2	150	Above properties are for 1.4404	
1 1/2	300	1.4404/316L also corresponds to the following designation 316S11	
2	150		
2	300		
2 1/2	150		
2 1/2	300		
3	150		
3	300		
4	150		
4	300		
5	150		
5	300		
6	150		
6	300		
8	150		
8	300		
10	150		
10	300		
12	150		
12	300		
14	150		
14	300		
16	150		
16	300		
18	150		
18	300		
20	150		
20	300		
24	150		
24	300		

  

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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