

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

Flanges RF Weld Neck

Properties

Stock			Chemical Properties	
NB (in)	SCH	Pressure Rating	Element	Chemical Composition %
ASTM/ASME SA182 ANSI B16.5			Carbon (C)	0.0 - 0.03
1/2	10S	150/300	Chromium (Cr)	17.5 - 19.5
1/2	40S	150/300	Manganese (Mn)	0.0 - 2.0
1/2	80S	150/300	Silicon (Si)	0.0 - 1.0
3/4	10S	150	Phosphorus (P)	0.0 - 0.05
3/4	40S	150/300	Sulphur (S)	0.0 - 0.02
3/4	80S	150	Nickel (Ni)	8.0 - 10.50
1	10S	150/300	Iron (Fe)	Balance
1	40S	150/300	Above properties are for 1.4307	
1	80S	150/300	1.4307/304L also corresponds to the following designation 304S11	
1 1/4	10S	150		
1 1/4	40S	300		
1 1/2	10S	150		
1 1/2	40S	150/300		
1 1/2	80S	150/300		
2	10S	150/300		
2	40S	150/300		
2	80S	150/300		
2 1/2	10S	150/300		
2 1/2	40S	150/300		
3	10S	150/300		
3	40S	150/300		
3	80S	150/300		
4	10S	150/300		
4	40S	150/300		
4	80S	150		
5	10S	150		
5	40S	150		
6	10S	150		
6	40S	150		
8	10S	150		
8	40S	150		
10	10S	150		
10	40S	150		
12	10S	150		
12	40S	300		

Mechanical Properties	
Property	Value
Tensile Strength	500 to 670 MPa
Elongation	45% min
Compressive Strength	200 MPa
Above properties are for 1.4307	
1.4301/304 also corresponds to the following designation 304S11	

Physical Properties	
Property	Value
Density	8.00 g/cm ³
Melting Point	1450°C
Thermal Expansion	17.2 x 10 ⁻⁶ /K
Modulus of Elasticity	193 GPa
Thermal Conductivity	16.2 W/m.K
Electrical Resistivity	0.072 x 10 ⁻⁶ Ω.m
1.4307/304L also corresponds to the following designation 304S11	

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