

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

## 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)	17.5 - 19.5
1/2	300	Manganese (Mn)	0.0 - 2.0
3/4	150	Silicon (Si)	0.0 - 1.0
3/4	300	Phosphorus (P)	0.0 - 0.05
1	150	Sulphur (S)	0.0 - 0.02
1	300	Nickel (Ni)	8.0 - 10.50
1 1/4	150	Iron (Fe)	Balance
1 1/4	300	Above properties are for 1.4307	
1 1/2	150	1.4307/304L also corresponds to the following designation 304S11	
1 1/2	300		
2	150	Mechanical Properties	
2	300	Property	Value
2 1/2	150	Tensile Strength	500 to 670 MPa
2 1/2	300	Elongation	45% min
3	150	Compressive Strength	200 MPa
3	300	Above properties are for 1.4307	
4	150	1.4301/304 also corresponds to the following designation 304S11	
4	300		
5	150	Physical Properties	
5	300	Property	Value
6	150	Density	8.00 g/cm <sup>3</sup>
6	300	Melting Point	1450°C
8	150	Thermal Expansion	17.2 x 10 <sup>-6</sup> /K
8	300	Modulus of Elasticity	193 GPa
10	150	Thermal Conductivity	16.2 W/m.K
10	300	Electrical Resistivity	0.072 x 10 <sup>-6</sup> Ω.m
12	150	1.4307/304L also corresponds to the following designation 304S11	
12	300		
14	150		
14	300		
16	150		
16	300		
18	150		
18	300		
20	150		
20	300		
24	150		
24	300		

## Disclaimer

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