

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

## Flanges BS10

## Properties

Stock		Chemical Properties	
NB (in)	Table	Element	Chemical Composition %
Slip-on & Blind		Carbon (C)	0.0 - 0.03
1/2	D	Chromium (Cr)	17.5 - 19.5
1/2	E	Manganese (Mn)	0.0 - 2.0
3/4	D	Silicon (Si)	0.0 - 1.0
3/4	E	Phosphorus (P)	0.0 - 0.05
1	D	Sulphur (S)	0.0 - 0.02
1	E	Nickel (Ni)	8.0 - 10.50
1 1/4	D	Iron (Fe)	Balance
1 1/4	E	Above properties are for 1.4307	
1 1/2	D	1.4307/304L also corresponds to the following designation 304S11	
1 1/2	E		
2	D		
2	E	<b>Mechanical Properties</b>	
2 1/2	D	<b>Property</b>	<b>Value</b>
2 1/2	E	Tensile Strength	500 to 670 MPa
3	D	Elongation	45% min
3	E	Compressive Strength	200 MPa
4	D	Above properties are for 1.4307	
4	E	1.4301/304 also corresponds to the following designation 304S11	
5	D		
5	E	<b>Physical Properties</b>	
6	D	<b>Property</b>	<b>Value</b>
6	E	Density	8.00 g/cm <sup>3</sup>
8	D	Melting Point	1450°C
8	E	Thermal Expansion	17.2 x 10 <sup>-6</sup> /K
10	D	Modulus of Elasticity	193 GPa
10	E	Thermal Conductivity	16.2 W/m.K
12	D	Electrical Resistivity	0.072 x 10 <sup>-6</sup> Ω.m
12	E	1.4307/304L also corresponds to the following designation 304S11	
Other sizes and table ratings available on request			

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