

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

Flanges BS4504

Properties

Stock		Chemical Properties	
NB (in)	Pressure Rating	Element	Chemical Composition %
PN16/101 RF Slip-on		Carbon (C)	0.0 - 0.03
PN16/105 RF Blind		Chromium (Cr)	17.5 - 19.5
PN16/111 RF Weld Neck		Manganese (Mn)	0.0 - 2.0
1/2	16	Silicon (Si)	0.0 - 1.0
3/4	16	Phosphorus (P)	0.0 - 0.05
1	16	Sulphur (S)	0.0 - 0.02
1 1/4	16	Nickel (Ni)	8.0 - 10.50
1 1/2	16	Iron (Fe)	Balance
2	16	Above properties are for 1.4307	
2 1/2	16	1.4307/304L also corresponds to the following designation 304S11	
3	16		
4	16		
5	16		
6	16		
8	16		
10	16		
12	16		
Other sizes & higher pressures available on request			
		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	

Disclaimer

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