

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

Square Bar

Properties

Stock		Chemical Properties	
Size SQ (in)	Weight/m (Kg)	Element	Chemical Composition %
8mm	0.50	Carbon (C)	0.0 - 0.03
3/8	0.71	Chromium (Cr)	17.5 - 19.5
10mm	0.79	Manganese (Mn)	0.0 - 2.0
12mm	1.14	Silicon (Si)	0.0 - 1.0
1/2	1.26	Phosphorus (P)	0.0 - 0.05
16mm	2.00	Sulphur (S)	0.0 - 0.02
5/8	1.99	Nickel (Ni)	8.0 - 10.50
3/4	2.84	Iron (Fe)	Balance
20mm	3.14	Above properties are for 1.4307	
25mm	4.91	1.4307/304L also corresponds to the following designation 304S11	
30mm	5.01		
1	7.11		
1 1/4	7.94		
1 1/2	11.38		
40mm	12.60		
50mm	19.80		
2	20.20		
		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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