

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

Rectangular Section - Dull Polished

Properties

Stock		Chemical Properties	
Size (mm)	Weight/m (Kg)	Element	Chemical Composition %
20 x 10 x 1.5	0.44	Carbon (C)	0.0 - 0.03
30 x 10 x 10.2	0.71	Chromium (Cr)	17.5 - 19.5
30 x 15 x 1.5	1.02	Manganese (Mn)	0.0 - 2.0
30 x 20 x 1.5	1.14	Silicon (Si)	0.0 - 1.0
40 x 15 x 1.5	1.25	Phosphorus (P)	0.0 - 0.05
40 x 20 x 1.2	1.10	Sulphur (S)	0.0 - 0.02
40 x 20 x 1.5	1.38	Nickel (Ni)	8.0 - 10.50
40 x 20 x 2.0	1.84	Iron (Fe)	Balance
40 x 40 x 2.0	2.45	Above properties are for 1.4307	
50 x 25 x 1.2	1.41	1.4307/304L also corresponds to the following designation 304S11	
50 x 25 x 1.5	1.74		
50 x 25 x 2.0	2.29		
50 x 25 x 3.0	3.75		
50 x 30 x 1.5	1.86		
50 x 30 x 2.0	2.45		
50 x 30 x 3.0	3.60		
60 x 20 x 1.5	1.85		
60 x 30 x 1.5	2.12		
60 x 30 x 2.0	2.80		
60 x 30 x 3.0	4.13		
60 x 40 x 1.5	2.32		
60 x 40 x 2.0	3.08		
60 x 40 x 3.0	4.65		
80 x 40 x 1.5	2.80		
80 x 40 x 2.0	3.71		
80 x 40 x 3.0	5.49		
80 x 60 x 3.0	6.53		
100 x 40 x 3.0	6.53		
100 x 50 x 2.0	4.68		
100 x 50 x 3.0	6.95		
100 x 60 x 3.0	7.53		
120 x 60 x 3.0	8.12		

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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