

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

Box Section - Unpolished

Properties

Stock		Chemical Properties	
Size (mm)	Weight/m (Kg)	Element	Chemical Composition %
12.7 x 12.7 x 1.2	0.44	Carbon (C)	0.0 - 0.03
12.7 x 12.7 x 1.5	0.55	Chromium (Cr)	17.5 - 19.5
20 x 20 x 1.5	0.88	Manganese (Mn)	0.0 - 2.0
40 x 40 x 4.0	4.80	Silicon (Si)	0.0 - 1.0
50 x 50 x 4.0	5.96	Phosphorus (P)	0.0 - 0.05
50 x 50 x 5.0	7.41	Sulphur (S)	0.0 - 0.02
60 x 60 x 4.0	7.22	Nickel (Ni)	8.0 - 10.50
60 x 60 x 5.0	8.90	Iron (Fe)	Balance
80 x 80 x 4.0	9.82	Above properties are for 1.4307	
80 x 80 x 5.0	12.39	1.4307/304L also corresponds to the following designation 304S11	
100 x 100 x 4.0	12.40		
100 x 100 x 5.0	15.38		
100 x 100 x 6.0	17.50		
100 x 100 x 8.0	21.60		
120 x 120 x 3.0	11.80		
120 x 120 x 4.0	15.00		
120 x 120 x 5.0	18.66		
120 x 120 x 6.0	21.20		
150 x 150 x 3.0	14.06		
150 x 150 x 4.0	18.60		
150 x 150 x 5.0	23.00		
150 x 150 x 6.0	31.20		
150 x 150 x 8.0	34.30		
150 x 150 x 10.0	41.65		
200 x 200 x 3.0	18.62		
200 x 200 x 5.0	30.80		
200 x 200 x 6.0	39.61		
200 x 200 x 8.0	47.25		
200 x 200 x 10.0	57.60		

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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