

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

Box Section - Dull Polished

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
15 x 15 x 1.2	0.53	Manganese (Mn)	0.0 - 2.0
15 x 15 x 1.5	0.65	Silicon (Si)	0.0 - 1.0
20 x 20 x 1.2	0.71	Phosphorus (P)	0.0 - 0.05
20 x 20 x 1.5	0.88	Sulphur (S)	0.0 - 0.02
20 x 20 x 2.0	1.19	Nickel (Ni)	8.0 - 10.50
25 x 25 x 1.2	0.92	Iron (Fe)	Balance
25 x 25 x 1.5	1.14	Above properties are for 1.4307	
25 x 25 x 2.0	1.49	1.4307/304L also corresponds to the following designation 304S11	
25 x 25 x 3.0	2.20		
30 x 30 x 1.2	1.10	Mechanical Properties	
30 x 30 x 1.5	1.37	Property	Value
30 x 30 x 2.0	1.84	Tensile Strength	500 to 670 MPa
30 x 30 x 3.0	2.72	Elongation	45% min
38 x 38 x 1.2	1.42	Compressive Strength	200 MPa
38 x 38 x 1.5	1.76	Above properties are for 1.4307	
40 x 40 x 1.2	1.49	1.4301/304 also corresponds to the following designation 304S11	
40 x 40 x 1.5	1.85		
40 x 40 x 2.0	2.45	Physical Properties	
40 x 40 x 3.0	3.75	Property	Value
50 x 50 x 1.5	2.32	Density	8.00 g/cm ³
50 x 50 x 2.0	3.08	Melting Point	1450°C
50 x 50 x 3.0	4.65	Thermal Expansion	17.2 x 10 ⁻⁶ /K
50 x 50 x 4.0	5.98	Modulus of Elasticity	193 GPa
60 x 60 x 2.0	3.71	Thermal Conductivity	16.2 W/m.K
60 x 60 x 3.0	5.49	Electrical Resistivity	0.072 x 10 ⁻⁶ Ω.m
70 x 70 x 3.0	6.53	1.4307/304L also corresponds to the following designation 304S11	
80 x 80 x 2.0	4.98		
80 x 80 x 3.0	7.53		
100 x 100 x 2.0	6.40		
100 x 100 x 3.0	9.53		
100 x 100 x 5.0	12.32		

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