

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

Angle

Properties

Stock		Chemical Properties	
Size (mm)	Weight/m (Kg)	Element	Chemical Composition %
20 x 20 x 3	0.88	Carbon (C)	0.0 - 0.03
25 x 25 x 3	1.12	Chromium (Cr)	17.5 - 19.5
25 x 25 x 5	1.77	Manganese (Mn)	0.0 - 2.0
25 x 25 x 6	2.01	Silicon (Si)	0.0 - 1.0
30 x 30 x 3	1.36	Phosphorus (P)	0.0 - 0.05
30 x 30 x 5	2.17	Sulphur (S)	0.0 - 0.02
30 x 30 x 6	2.54	Nickel (Ni)	8.0 - 10.50
40 x 40 x 3	1.88	Iron (Fe)	Balance
40 x 40 x 5	2.97	Above properties are for 1.4307	
40 x 40 x 6	3.52	1.4307/304L also corresponds to the following designation 304S11	
50 x 50 x 3	2.36		
50 x 50 x 5	3.77		
50 x 50 x 6	4.40		
50 x 50 x 10	7.74		
60 x 60 x 5	4.91		
60 x 60 x 6	5.42		
60 x 60 x 10	9.46		
70 x 70 x 6	6.91		
70 x 70 x 10	11.18		
75 x 75 x 6	6.93		
75 x 75 x 10	11.95		
80 x 80 x 6	7.37		
80 x 80 x 8	9.66		
80 x 80 x 10	12.90		
100 x 100 x 6	9.28		
100 x 100 x 8	12.40		
100 x 100 x 10	15.10		
		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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