

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

Round Bar

Properties

Stock		Chemical Properties	
Dia (in)	Weight/m (Kg)	Element	Chemical Composition %
3mm	0.06	Carbon (C)	0.0 - 0.03
1/8	0.06	Chromium (Cr)	17.5 - 19.5
4mm	0.10	Manganese (Mn)	0.0 - 2.0
3/16	0.14	Silicon (Si)	0.0 - 1.0
5mm	0.15	Phosphorus (P)	0.0 - 0.05
6mm	0.22	Sulphur (S)	0.0 - 0.02
1/4	0.25	Nickel (Ni)	8.0 - 10.50
8mm	0.39	Iron (Fe)	Balance
9mm	0.40	Above properties are for 1.4307	
5/16	0.50	1.4307/304L also corresponds to the following designation 304S11	
10mm	0.56		
3/8	0.62	Mechanical Properties	
7/16	0.76	Property	Value
12mm	0.89	Tensile Strength	500 to 670 MPa
1/2	0.99	Elongation	45% min
13mm	1.04	Compressive Strength	200 MPa
14mm	1.21	Above properties are for 1.4307	
9/16	1.26	1.4301/304 also corresponds to the following designation 304S11	
15mm	1.39		
5/8	1.55	Physical Properties	
16mm	1.58	Property	Value
18mm	2.00	Density	8.00 g/cm ³
3/4	2.24	Melting Point	1450°C
20mm	2.47	Thermal Expansion	17.2 x 10 ⁻⁶ /K
7/8	3.04	Modulus of Elasticity	193 GPa
24mm	3.55	Thermal Conductivity	16.2 W/m.K
25mm	3.85	Electrical Resistivity	0.072 x 10 ⁻⁶ Ω.m
1	3.98	1.4307/304L also corresponds to the following designation 304S11	
1 1/8	5.03		
30mm	5.55		
1 1/4	6.21		
32mm	6.31		
1 3/8	7.47		
35mm	7.55		
1 1/2	8.94		
40mm	9.86		
1 5/8	10.50		
1 3/4	12.18		
45mm	12.48		
1 7/8	13.98		
50mm	15.41		
2	15.90		

2 1/8	17.96
2 1/4	20.13
60mm	22.30
2 3/8	22.40
2 1/2	24.85
2 5/8	27.39
2 3/4	30.07
75mm	30.22
3	35.76
3 1/4	42.00
3 1/2	48.69
3 3/4	55.91
4	63.62
4 1/4	71.80
4 1/2	80.50
4 3/4	89.70
5	99.40
5 1/4	110.00
5 1/2	120.00
5 3/4	131.00
6	143.00
6 1/2	168.00
6 3/4	181.00
7	195.00
7 1/2	224.00
8	255.00
8 1/2	287.00
9	322.00
9 1/2	359.00
10	397.00
10 1/2	438.00
11	481.00
12	572.00
12 1/2	621.00
13	672.00
340mm	728.00
14	779.00
15	894.00
16	1018.00
3mm - 1": Bright Drawn H9	
1" - 3": Smooth Turned H10	
3" - 16": Peeled K12/K16	

Disclaimer

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