

## Stainless Steel (inc. High Performance) - 1.4541 / 321

### Round Bar

### Properties

Stock		Chemical Properties	
Dia (in)	Weight/m (Kg)	Element	Chemical Composition %
3/16	0.14	Carbon (C)	0.08 max
1/4	0.24	Manganese (Mn)	2.00
5/16	0.38	Silicon (Si)	0.75
3/8	0.56	Phosphorus (P)	0.045
7/16	0.76	Sulphur (S)	0.03
1/2	0.99	Chromium (Cr)	17.0 - 19.0
9/16	1.26	Nickel (Ni)	9.0 - 12.0
5/8	1.55	Nitrogen (N)	0.1
3/4	2.24	Others	Ti=5(C+N) min 0.70 max
7/8	3.04		
1	3.98	Mechanical Properties	
1 1/8	5.03	Property	Value
1 1/4	6.21	Proof Stress	205 MPa min
1 3/8	7.47	Tensile Strength	515 MPa min
1 1/2	8.94	Elongation	40% min
1 5/8	10.50	Hardness Brinell	201 HB max
1 3/4	12.18		
1 7/8	13.98	Physical Properties	
2	15.90	Property	Value
2 1/4	20.13	Density	7.9 g/cm <sup>3</sup>
2 3/8	22.40	Modulus of Elasticity	200 N/mm <sup>2</sup>
2 1/2	24.85	Thermal Conductivity	14.6 W/m.K
2 3/4	30.07	Specific Heat	500 J/g.K
3	35.76	Specific Electric Resistance	0.73 Ω.mm <sup>2/m</sup>
3 1/4	42.00		
3 1/2	48.69		
3 3/4	55.91		
4	63.62		
4 1/2	80.50		
5	99.40		
5 1/2	120.00		
6	143.00		
3/16" - 1": Bright Drawn H9			
1 1/8" - 3": Smooth Turned H10			
3 1/4" - 6": Peeled K12/K16			

### Disclaimer

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