

Aluminium - 2014 T6

Round Bar

Properties

Stock		Chemical Properties	
Dia (in)	Weight/m (Kg)	Element	Chemical composition %
7/16	0.26	Silicon (Si)	0.50 - 2.10
1/2	0.34	Iron (Fe)	0.0 - 0.70
5/8	0.54	Copper (Cu)	3.90 - 5.00
7/8	1.05	Zinc (Zn)	0.0 - 0.25
15/16	1.21	Manganese (Mn)	0.40 - 1.00
1	1.50	Magnesium (Mg)	0.20 - 0.80
1 1/8	1.74	Titanium (Ti)	0.0 - 0.15
1 1/4	2.14	Others (Total)	0.0 - 0.15
1 5/16	2.48	Aluminium (Al)	Balance
1 3/8	2.60		
1 1/2	3.10		
1 3/4	4.21		
2	5.49		
2 1/4	6.95		
2 1/2	8.59		
2 5/8	9.46		
3	12.40		
3 1/2	17.54		
5	34.40		
		Mechanical Properties	
		Property	Value
		Proof stress	300 MPa
		Tensile strength	395 MPa
		Elongation A50 mm	12% min
		Shear Strength	235 MPa
		Hardness Vickers	115 HV
		Physical Properties	
		Property	Value
		Density	2.82 g/cm ³
		Melting point	535°C
		Thermal expansion	23 x 10 ⁻⁶ /K
		Modulus of elasticity	71 GPa
		Thermal conductivity	138 W/m.k
		Electrical resistivity	0.045 x 10 ⁻⁶ Ω.m

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