

Aluminium - 2011 T3 Speedal

Hexagon Bar

Properties

Stock		Chemical Properties	
Size A/F (in)	Weight/m (Kg)	Element	Chemical Composition (%)
0.445	0.31	Silicon (Si)	0.40 typical
1/2	0.38	Iron (Fe)	0.70 typical
0.500	0.39	Copper (Cu)	5.00 - 6.00
0.525	0.43	Lead (Pb)	0.20 - 0.60
0.600	0.56	Bismuth (Bi)	0.20 - 0.60
0.625	0.61	Zinc (Zn)	0.30 typical
0.710	0.79	Others (Total)	0.15 typical
3/4	0.88	Aluminium (Al)	Balance
0.820	1.05		
0.875	1.14		
1.010	1.59		
1.200	2.25		
1.480*	3.41		
1.670*	4.20		
* Only available in 6082 T6			

Mechanical Properties	
Property	Value
Proof Stress	290 - 300 MPa
Tensile Strength	365 MPa
Elongation	15%
Shear Strength	220 MPa
Hardness Vickers	110 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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