

Aluminium - 6082 T6

Equal Angle

Properties

Stock		Chemical Properties	
Size (in)	Weight/m (Kg)	Element	Chemical composition %
3/8 x 3/8 x 1/16	0.08	Manganese (Mn)	0.40 - 1.00
1/2 x 1/2 x 1/16	0.10	Iron (Fe)	0.0 - 0.50
1/2 x 1/2 x 1/8	0.19	Magnesium (Mg)	0.60 - 1.20
5/8 x 5/8 x 1/16	0.13	Silicon (Si)	0.70 - 1.30
5/8 x 5/8 x 1/8	0.25	Copper (Cu)	0.0 - 0.10
3/4 x 3/4 x 1/16	0.16	Zinc (Zn)	0.0 - 0.20
3/4 x 3/4 x 1/8	0.30	Titanium (Ti)	0.0 - 0.10
7/8 x 7/8 x 1/8	0.36	Chromium (Cr)	0.0 - 0.25
25 x 25 x 3mm	0.38	Aluminium (Al)	Balance
1 x 1 x 1/16	0.21		
1 x 1 x 1/8	0.41		
1 x 1 x 3/16	0.59		
1 x 1 x 1/4	0.76		
30 x 30 x 3mm	0.47		
1 1/4 x 1 1/4 x 1/16	0.27		
1 1/4 x 1 1/4 x 1/8	0.52		
1 1/4 x 1 1/4 x 3/16	0.76		
1 1/4 x 1 1/4 x 1/4	0.98		
1 1/2 x 1 1/2 x 1/16	0.32		
1 1/2 x 1 1/2 x 1/8	0.63		
1 1/2 x 1 1/2 x 3/16	0.92		
1 1/2 x 1 1/2 x 1/4	1.20		
1 3/4 x 1 3/4 x 1/8	0.74		
1 3/4 x 1 3/4 x 3/16	1.09		
1 3/4 x 1 3/4 x 1/4	1.42		
40 x 40 x 3mm	0.63		
40 x 40 x 4mm	0.82		
50 x 50 x 3mm	0.79		
50 x 50 x 6mm	1.30		
2 x 2 x 1/16	0.43		
2 x 2 x 1/8	0.85		
2 x 2 x 3/16	1.25		
2 x 2 x 1/4	1.64		
2 x 2 x 3/8	2.38		
2 1/2 x 2 1/2 x 1/8	1.06		
2 1/2 x 2 1/2 x 3/16	1.58		
2 1/2 x 2 1/2 x 1/4	2.08		
75 x 75 x 3mm	1.28		
3 x 3 x 1/8	1.21		
3 x 3 x 3/16	1.91		
3 x 3 x 1/4	2.51		
3 x 3 x 3/8	3.69		

Mechanical Properties	
Property	Value
Proof Stress	170 MPa
Tensile Strength	260 MPa
Elongation	19%
Shear Strength	170 MPa
Hardness Vickers	75 HV

Physical Properties	
Property	Value
Density	2.70 g/cm ³
Melting Point	555°C
Thermal Expansion	24 x 10 ⁻⁶ /K
Modulus of Elasticity	70 GPa
Thermal Conductivity	180 W/m.K
Electrical Resistivity	0.038 x 10 ⁻⁶ Ω.m

100 x 100 x 10mm	3.79
4 x 4 x 1/4	3.39
4 x 4 x 3/8	5.00
6 x 6 x 1/2	10.00

Disclaimer

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