

**ALUMINUM - 6082 T6****Properties****Equal Angle**

<b>Equal Angle</b>		<b>Chemical Properties</b>	
<b>Stock</b>		<b>Element</b>	<b>Chemical composition %</b>
<b>Size (in)</b>	<b>Weight/m (Kg)</b>	Manganese (Mn)	0.40 - 1.00
1/2 x 1/2 x 1/8	0.19	Iron (Fe)	0.0 - 0.50
5/8 x 5/8 x 1/16	0.13	Magnesium (Mg)	0.60 - 1.20
5/8 x 5/8 x 1/8	0.25	Silicon (Si)	0.70 - 1.30
3/4 x 3/4 x 1/16	0.16	Copper (Cu)	0.0 - 0.10
3/4 x 3/4 x 1/8	0.30	Zinc (Zn)	0.0 - 0.20
7/8 x 7/8 x 1/8	0.36	Titanium (Ti)	0.0 - 0.10
25 x 25 x 3mm	0.38	Chromium (Cr)	0.0 - 0.25
1 x 1 x 1/16	0.21	Aluminium (Al)	Balance
1 x 1 x 1/8	0.41	<b>Mechanical Properties</b>	
1 x 1 x 3/16	0.59	<b>Property</b>	<b>Value</b>
1 x 1 x 1/4	0.76	Proof Stress	170 MPa
30 x 30 x 3mm	0.47	Tensile Strength	260 MPa
1 1/4 x 1 1/4 x 1/16	0.27	Elongation	19%
1 1/4 x 1 1/4 x 1/8	0.52	Shear Strength	170 MPa
1 1/4 x 1 1/4 x 3/16	0.76	Hardness Vickers	75 HV
1 1/4 x 1 1/4 x 1/4	0.98	<b>Physical Properties</b>	
1 1/2 x 1 1/2 x 1/16	0.32	<b>Property</b>	<b>Value</b>
1 1/2 x 1 1/2 x 1/8	0.63	Density	2.70 g/cm <sup>3</sup>
1 1/2 x 1 1/2 x 3/16	0.92	Melting Point	555°C
1 1/2 x 1 1/2 x 1/4	1.20	Thermal Expansion	24 x 10 <sup>-6</sup> /K
1 3/4 x 1 3/4 x 1/8	0.74	Modulus of Elasticity	70 GPa
1 3/4 x 1 3/4 x 3/16	1.09	Thermal Conductivity	180 W/m.K
1 3/4 x 1 3/4 x 1/4	1.42	Electrical Resistivity	0.038 x 10 <sup>-6</sup> Ω.m
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		

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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