

# Aluminium - 6063A 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)	0.15 max
1/2 x 1/2 x 1/16	0.10	Iron (Fe)	0.15 - 0.35
1/2 x 1/2 x 1/8	0.19	Magnesium (Mg)	0.60 - 0.90
5/8 x 5/8 x 1/16	0.13	Silicon (Si)	0.30 - 0.60
5/8 x 5/8 x 1/8	0.25	Zinc (Zn)	0.0 - 0.15
3/4 x 3/4 x 1/16	0.16	Titanium (Ti)	0.10 max
3/4 x 3/4 x 1/8	0.30	Chromium (Cr)	0.05 max
7/8 x 7/8 x 1/8	0.36	Copper (Cu)	0.10 max
25 x 25 x 3mm	0.38	Aluminium (Al)	Balance
1 x 1 x 1/16	0.21	<b>Mechanical Properties</b>	
1 x 1 x 1/8	0.41		
1 x 1 x 3/16	0.59		
1 x 1 x 1/4	0.76	<b>Property</b>	<b>Value</b>
30 x 30 x 3mm	0.47	Proof Stress	90 MPa
1 1/4 x 1 1/4 x 1/16	0.27	Tensile Strength	150 MPa
1 1/4 x 1 1/4 x 1/8	0.52	Elongation	10%
1 1/4 x 1 1/4 x 3/16	0.76	<b>Physical Properties</b>	
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	<b>Property</b>	<b>Value</b>
1 1/2 x 1 1/2 x 3/16	0.92	Density	2.70 g/cm <sup>3</sup>
1 1/2 x 1 1/2 x 1/4	1.20	Melting Point	600°C
1 3/4 x 1 3/4 x 1/8	0.74	Thermal Expansion	23.5 x 10 <sup>-6</sup> /K
1 3/4 x 1 3/4 x 3/16	1.09	Modulus of Elasticity	69.5 GPa
1 3/4 x 1 3/4 x 1/4	1.42	Thermal Conductivity	200 W/m.K
40 x 40 x 3mm	0.63	Electrical Resistivity	0.035 x 10 <sup>-6</sup> Ω.m
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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