

Aluminium - 6063 T6

Unequal Angle

Properties

Stock		Chemical Properties	
Size (in)	Weight/m (Kg)	Element	Chemical Composition %
3/4 x 1/2 x 1/16	0.13	Manganese (Mn)	0.0 - 0.10
3/4 x 1/2 x 1/8	0.25	Iron (Fe)	0.0 - 0.35
1 x 1/2 x 1/16	0.15	Magnesium (Mg)	0.45 - 0.90
1 x 1/2 x 1/8	0.30	Silicon (Si)	0.20 - 0.60
1 x 5/8 x 1/8	0.33	Zinc (Zn)	0.0 - 0.10
1 x 3/4 x 1/16	0.18	Titanium (Ti)	0.0 - 0.10
1 x 3/4 x 1/8	0.36	Chromium (Cr)	0.0 - 0.10
1 1/4 x 1/2 x 1/8	0.36	Copper (Cu)	0.0 - 0.10
1 1/4 x 3/4 x 1/8	0.41	Other (Each)	0.0 - 0.05
1 1/4 x 1 x 1/8	0.47	Others (Total)	0.0 - 0.15
1 1/2 x 1/2 x 1/8	0.41	Aluminium (Al)	Balance
1 1/2 x 3/4 x 1/16	0.24		
1 1/2 x 3/4 x 1/8	0.46		
1 1/2 x 1 x 1/8	0.52		
1 3/4 x 1 x 1/8	0.57		
50 x 25 x 3mm	0.59		
2 x 1/2 x 1/8	0.52		
2 x 3/4 x 1/8	0.57		
2 x 1 x 1/8	0.63		
2 x 1 x 3/16	0.92		
2 x 1 x 1/4	1.20		
2 x 1 1/2 x 1/8	0.74		
2 x 1 1/2 x 3/16	1.09		
2 x 1 1/2 x 1/4	1.42		
2 1/2 x 1 x 1/8	0.73		
2 1/2 x 1 1/2 x 1/8	0.85		
2 1/2 x 1 1/2 x 3/16	1.25		
2 1/2 x 1 1/2 x 1/4	1.64		
3 x 1 x 1/8	0.85		
3 x 1 x 1/4	1.64		
3 x 1 1/2 x 1/8	0.96		
3 x 1 1/2 x 3/16	1.40		
3 x 1 1/2 x 1/4	1.86		
3 x 2 x 1/8	1.07		
3 x 2 x 3/16	1.58		
3 x 2 x 1/4	2.08		
3 x 2 1/2 x 1/8	1.07		
3 x 3 x 1/8	1.06		
3 x 3 x 3/16	1.28		
3 x 3 x 1/4	1.91		
3 x 3 x 3/8	2.52		
4 x 3 x 1/8	3.69		

Mechanical Properties	
Property	Value
Proof Stress	170 Min MPa
Tensile Strength	215 Min MPa
Hardness Brinell	75 Typical HB
Elongation A	8 Min %

Physical Properties	
Property	Value
Density	2.70 g/cm ³
Melting Point	655°C
Thermal Expansion	23.5 x 10 ⁻⁶ /K
Modulus of Elasticity	69.5 GPa
Thermal Conductivity	201 W/m.K
Electrical Resistivity	0.033 x 10 ⁻⁶ Ω .m
Electrical Resistivity	52% IACS

100 x 50 x 6mm	2.26
100 x 50 x 8mm	3.08
4 x 2 x 1/8	1.28
4 x 2 x 1/4	2.51
4 x 3 x 1/4	2.95
120 x 60 x 8mm	3.73
6 x 2 x 3/8	5.00
6 x 3 x 3/8	5.63

Disclaimer

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