

# Aluminium - 6082 T6

## Square Tube

## Properties

Stock		Chemical Properties	
Size SQ (in)	Weight/m (Kg)	Element	Chemical composition %
25 x 3mm	0.72	Manganese (Mn)	0.40 - 1.00
1 x 16G	0.19	Iron (Fe)	0.0 - 0.50
1 x 10G	0.31	Magnesium (Mg)	0.60 - 1.20
1 1/4 x 16G	0.30	Silicon (Si)	0.70 - 1.30
1 1/4 x 10G	0.72	Copper (Cu)	0.0 - 0.10
1 1/2 x 10G	0.77	Zinc (Zn)	0.0 - 0.20
40 x 1.6mm	0.42	Titanium (Ti)	0.0 - 0.10
50 x 6mm	3.06	Chromium (Cr)	0.0 - 0.25
2 x 10G	1.64	Aluminium (Al)	Balance
100 x 5mm	5.15		
4 x 10G	3.46		
4 x 1/4	6.56		
		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 <sup>3</sup>
		Melting Point	555°C
		Thermal Expansion	24 x 10 <sup>-6</sup> /K
		Modulus of Elasticity	70 GPa
		Thermal Conductivity	180 W/m.K
		Electrical Resistivity	0.038 x 10 <sup>-6</sup> Ω.m

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