

Aluminium - 6082 T6

Shate

Properties

Stock		Chemical Properties	
Size (mm)	Weight/Sheet (Kg)	Element	Chemical composition %
2500 x 1250 x 4.0	33.90	Manganese (Mn)	0.40 - 1.00
2500 x 1250 x 5.0	42.30	Iron (Fe)	0.0 - 0.50
2500 x 1250 x 6.0	50.80	Magnesium (Mg)	0.60 - 1.20
		Silicon (Si)	0.70 - 1.30
		Copper (Cu)	0.0 - 0.10
		Zinc (Zn)	0.0 - 0.20
		Titanium (Ti)	0.0 - 0.10
		Chromium (Cr)	0.0 - 0.25
		Aluminium (Al)	Balance

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

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