

Aluminium - 5083 H22

Plate

Stock	Weight/Sheet (Kg)
Size (mm)	
2000 x 1000 x 3.0	16.26
2500 x 1250 x 3.0	25.41
2500 x 1250 x 4.0	33.88
2500 x 1250 x 5.0	42.34
2500 x 1250 x 6.0	50.81

Properties

Chemical Properties	
Element	Chemical Composition %
Manganese (Mn)	0.40 - 1.00
Iron (Fe)	0.40 max
Copper (Cu)	0.10 max
Magnesium (Mg)	4.0 - 4.90
Silicon (Si)	0.40 max
Zinc (Zn)	0.25 max
Chromium (Cr)	0.05 - 0.25
Titanium (Ti)	0.15 max
Aluminium (Al)	Balance

Mechanical Properties	
Property	Value
Proof Stress	215 MPa
Tensile Strength	343 MPa
Elongation	10%
Shear Strength	184 MPa
Hardness Vickers	75 HV

Physical Properties	
Property	Value
Density	2.66 g/cm ³
Melting Point	613°C
Thermal Expansion	25 x 10 ⁻⁶ /K
Modulus of Elasticity	72 GPa
Thermal Conductivity	117 W/m.k
Electrical Resistivity	00.056 x 10 ⁻⁶ Ω.m

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