

# Aluminium - 5083 H22

## Sheet

## Properties

Stock		Chemical Properties	
Size (mm)	Weight/Sheet (Kg)	Element	Chemical Composition %
2000 x 1000 x 1.5	8.13	Manganese (Mn)	0.40 - 1.00
2000 x 1000 x 1.6	8.67	Iron (Fe)	0.40 max
2000 x 1000 x 2.0	10.84	Copper (Cu)	0.10 max
2000 x 1000 x 3.0	16.26	Magnesium (Mg)	4.0 - 4.90
2500 x 1250 x 3.0	25.40	Silicon (Si)	0.40 max
2500 x 1250 x 4.0	33.87	Zinc (Zn)	0.25 max
2500 x 1250 x 5.0	42.34	Chromium (Cr)	0.05 - 0.25
2500 x 1250 x 6.0	50.87	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 <sup>3</sup>
Melting Point	613°C
Thermal Expansion	25 x 10 <sup>-6</sup> /K
Modulus of Elasticity	72 GPa
Thermal Conductivity	117 W/m.k
Electrical Resistivity	00.056 x 10 <sup>-6</sup> Ω.m

## Disclaimer

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