

Aluminium - 5251 H22

Shate

Properties

Stock		Chemical Properties	
Size (mm)	Weight/sheet (Kg)	Element	Chemical Composition %
2000 x 1000 x 4.0	21.60	Manganese (Mn)	0.10 - 0.50
2500 x 1250 x 4.0	33.70	Iron (Fe)	0.50 max
3000 x 1500 x 4.0	48.60	Copper (Cu)	0.15 max
2000 x 1000 x 5.0	27.00	Magnesium (Mg)	1.70 - 2.40
2500 x 1250 x 5.0	42.10	Silicon (Si)	0.40 max
3000 x 1500 x 5.0	60.70	Zinc (Zn)	0.15 max
2000 x 1000 x 6.0	32.40	Chromium (Cr)	0.15 max
2500 x 1250 x 6.0	50.60	Titanium (Ti)	0.15 max
3000 x 1500 x 6.0	72.90	Aluminium (Al)	Balance

Mechanical Properties

Property	Value
Proof Stress	165 MPa
Tensile Strength	210 MPa
Elongation	14%
Shear Strength	125 MPa
Hardness Vickers	65 HV

Physical Properties

Property	Value
Density	2.69 g/cm ³
Melting Point	625°C
Thermal Expansion	25 x 10 ⁻⁶ /K
Modulus of Elasticity	70 GPa
Thermal Conductivity	134 W/m.k
Electrical Resistivity	0.044 x 10 ⁻⁶ Ω.m

Disclaimer

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