

Aluminium - 5083 H111

Shate

Properties

Stock		Chemical Properties	
Size (mm)	Weight/m (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)	0.40 max
2500 x 1250 x 6.0	50.80	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	145 MPa
		Tensile Strength	300 MPa
		Elongation	23%
		Shear Strength	175 MPa
		Hardness Vickers	75 HV
		Physical Properties	
		Property	Value
		Density	2.65 g/cm ³
		Melting Point	570°C
		Thermal Expansion	25 x 10 ⁻⁶ /K
		Modulus of Elasticity	72 GPa
		Thermal Conductivity	121 W/m.k
		Electrical Resistivity	0.058 x 10 ⁻⁶ Ω.m

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