

Aluminium - 5083 H111

Large Plates

Properties

Stock		Chemical Properties	
Size (mm)	Weight/Sheet (Kg)	Element	Chemical Composition %
4000 x 2000 x 3.0	65.04	Manganese (Mn)	0.40 - 1.00
6000 x 2000 x 3.0	97.56	Iron (Fe)	0.40 max
4000 x 2000 x 4.0	86.72	Copper (Cu)	0.10 max
6000 x 2000 x 4.0	130.08	Magnesium (Mg)	4.0 - 4.90
4000 x 2000 x 5.0	108.40	Silicon (Si)	0.40 max
6000 x 2000 x 5.0	162.60	Zinc (Zn)	0.25 max
4000 x 2000 x 6.0	130.08	Chromium (Cr)	0.05 - 0.25
6000 x 2000 x 6.0	195.12	Titanium (Ti)	0.15 max
4000 x 2000 x 7.0	151.76	Aluminium (Al)	Balance
6000 x 2000 x 7.0	227.64		
4000 x 2000 x 8.0	173.44	Mechanical Properties	
6000 x 2000 x 8.0	260.16	Property	Value
4000 x 2000 x 10.0	216.80	Proof Stress	145 MPa
6000 x 2000 x 10.0	325.20	Tensile Strength	300 MPa
4000 x 2000 x 12.0	260.16	Elongation	23%
6000 x 2000 x 12.0	390.24	Shear Strength	175 MPa
4000 x 2000 x 15.0	325.20	Hardness Vickers	75 HV
6000 x 2000 x 15.0	487.80		
4000 x 2000 x 20.0	433.60	Physical Properties	
6000 x 2000 x 20.0	650.40	Property	Value
4000 x 2000 x 25.0	542.00	Density	2.65 g/cm ³
6000 x 2000 x 25.0	813.00	Melting Point	570°C
4000 x 2000 x 30.0	650.40	Thermal Expansion	25 x 10 ⁻⁶ /K
6000 x 2000 x 30.0	975.60	Modulus of Elasticity	72 GPa
6000 x 2000 x 40.0	1300.80	Thermal Conductivity	121 W/m.k
		Electrical Resistivity	0.058 x 10 ⁻⁶ Ω.m

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