

Aluminium - 5251 H22

Sheet

Properties

Stock		Chemical Properties	
Size (mm)	Weight/Sheet (Kg)	Element	Chemical Composition %
2000 x 1000 x 0.9	4.88	Manganese (Mn)	0.10 - 0.50
2000 x 1000 x 1.0	5.42	Iron (Fe)	0.50 max
2500 x 1250 x 1.0	8.46	Copper (Cu)	0.15 max
3000 x 1250 x 1.0	10.16	Magnesium (Mg)	1.70 - 2.40
2000 x 1000 x 1.2	6.50	Silicon (Si)	0.40 max
2500 x 1250 x 1.2	10.16	Zinc (Zn)	0.15 max
2000 x 1000 x 1.5	8.13	Chromium (Cr)	0.15 max
2500 x 1250 x 1.5	12.70	Titanium (Ti)	0.15 max
3000 x 1500 x 1.5	18.29	Aluminium (Al)	Balance
2000 x 1000 x 2.0	10.84	Mechanical Properties	
2500 x 1250 x 2.0	16.93		
3000 x 1500 x 2.0	24.39		
2000 x 1000 x 2.5	13.55	Property	Value
2500 x 1250 x 2.5	21.17	Proof Stress	165 MPa
2000 x 1000 x 3.0	16.26	Tensile Strength	210 MPa
2500 x 1250 x 3.0	25.40	Elongation	14%
3000 x 1500 x 3.0	36.59	Shear Strength	125 MPa
2000 x 1000 x 4.0	21.68	Hardness Vickers	65 HV
2500 x 1250 x 4.0	33.87	Physical Properties	
2000 x 1000 x 5.0	27.10		
2500 x 1250 x 5.0	42.34		
2000 x 1000 x 6.0	32.52	Property	Value
2500 x 1250 x 6.0	50.81	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

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