

5083 H111

**Chemical Properties**

Element	Chemical Composition %
Manganese (Mn)	0.40 - 1.00
Iron (Fe)	0.40 max
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 <sup>3</sup>
Melting Point	570°C
Thermal Expansion	25 x 10 <sup>-6</sup> /K
Modulus of Elasticity	72 GPa
Thermal Conductivity	121 W/m.k
Electrical Resistivity	0.058 x 10 <sup>-6</sup> Ω.m

**Product Forms**

Large Plates

Shate

Standard Plate

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