

5083 H321

## Chemical Properties

Element	Chemical Composition %
Manganese (Mn)	0.40 - 1.00
Iron (Fe)	0.40 typical
Copper (Cu)	0.10 typical
Magnesium (Mg)	4.0 - 4.90
Silicon (Si)	0.40 typical
Zinc (Zn)	0.25 typical
Chromium (Cr)	0.05 - 0.25
Titanium (Ti)	0.15 typical
Aluminium (Al)	Balance

## Mechanical Properties

Property	Value
Proof stress	240 MPa
Tensile strength	330 MPa
Elongation	17%
Shear strength	185 MPa
Hardness Vickers	95 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

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