



MULTI METALS

BESPOKE ALUMINIUM SOLUTIONS

ALUMINIUM DATA SHEET

ALLOY GRADE: 6082

Alloy 6082 is a medium strength alloy with excellent corrosion resistance.

It contains of a large amount of manganese which controls the grain structure and results in a stronger alloy.

It is difficult to produce to produce thin walled or complicated shaped extrusions

Aluminium alloy 6082 also corresponds to: AA6082, H30, DIN 3.2315, AlSi1MgMn and A96082

But may not be a direct equivalent in all circumstances or all technical attributes

Fabrication

Solderability:	Good
Weldability - Gas:	Good
Weldability - Arc:	Good
Weldability - Resistance:	Good
Brazability:	Good
Workability - Cold:	Good
Machinability:	Good

Chemical Composition

Element	% Present
Manganese (Mn)	0.40 - 1.00
Iron (Fe)	0.0 - 0.50
Magnesium (Mg)	0.60 - 1.20
Silicon (Si)	0.70 - 1.30
Copper (Cu)	0.0 - 0.10
Zinc (Zn)	0.0 - 0.20
Titanium (Ti)	0.0 - 0.10
Chromium (Cr)	0.0 - 0.25
Aluminium (Al)	Balance

Physical Properties (for guidance only)

Melting Point	555 °C
Thermal Expansion	24 x 10 ⁻⁶ /K
Modulus of Elasticity	70 GPa
Thermal Conductivity	180 W/m.K
Electrical Resistivity	0.038 x 10 ⁻⁶ Ω .m

Note.

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