



MULTI METALS

BESPOKE ALUMINIUM SOLUTIONS

ALUMINIUM DATA SHEET

ALLOY GRADE

6063

Alloy 6063 is of medium strength and commonly referred to as an architectural alloy. It is easily used for intricate extrusions and has a high corrosion resistance. It is suitable for both welding and anodising.

The alloy 6063 also corresponds to: **AA6063, Al Mg0.7Si, GS10, AlMgSi0.5 and H9**
But may not be a direct equivalent in all circumstances or all technical attributes.

Fabrication

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

Chemical Composition

Element	% Present
Manganese (Mn)	0.0 - 0.10
Iron (Fe)	0.0 - 0.35
Magnesium (Mg)	0.45 - 0.90
Silicon (Si)	0.20 - 0.60
Zinc (Zn)	0.0 - 0.10
Titanium (Ti)	0.0 - 0.10
Chromium (Cr)	0.0 - 0.10
Copper (Cu)	0.0 - 0.10
Aluminium (Al)	Balance

Physical Properties (for guidance only)

Melting Point	600 °C
Thermal Expansion	23.5 x 10 ⁻⁶ /K
Modulus of Elasticity	69.5 GPa
Thermal Conductivity	200 W/m.K
Electrical Resistivity	0.035 x 10 ⁻⁶ Ω .m

Note.

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