



MULTI METALS

BESPOKE ALUMINIUM SOLUTIONS

ALUMINIUM DATA SHEET ALLOY GRADE 1050

Aluminium alloy 1050 is a popular grade of aluminium for general sheet metal work where moderate strength is required. Alloy 1050 has excellent corrosion resistance and high ductility

Aluminium alloy 1050 also has a correspondance to specifications **AA1050A, S1B and A91050**. But may not be a direct equivalent in all circumstances or all technical attributes

Fabrication

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

Chemical Composition

Element	% Present
Manganese (Mn)	0.0 - 0.05
Iron (Fe)	0.0 - 0.40
Copper (Cu)	0.0 - 0.05
Magnesium (Mg)	0.0 - 0.05
Silicon (Si)	0.0 - 0.25
Zinc (Zn)	0.0 - 0.07
Titanium (Ti)	0.0 - 0.05
Aluminium (Al)	Balance

Physical Properties (for guidance only)

Melting Point	650 °C
Thermal Expansion	24 x 10 ⁻⁶ /K
Modulus of Elasticity	71 GPa
Thermal Conductivity	222 W/m.K
Electrical Resistivity	0.0282 x 10 ⁻⁶ Ω .m

Note.

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