



MULTI METALS

BESPOKE ALUMINIUM SOLUTIONS

ALUMINIUM DATA SHEET ALLOY GRADE 2024

Alloy 2024 is a high strength aluminium alloy often found in aerospace applications.

Aluminium alloy 2024 also corresponds to: **3.1355, AlCuMg2 and 9002/4**

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

Fabrication

Solderability:	Not Recommended
Weldability - Gas:	Not Recommended
Weldability - Arc:	Not Recommended
Weldability - Resistance:	Excellent
Brazability:	Not Recommended
Workability - Cold:	Good
Machinability:	Good

Chemical Composition

Element	% Present
Silicon (Si)	0.0 - 0.50
Iron (Fe)	0.0 - 0.50
Copper (Cu)	3.80 - 4.90
Manganese (Mn)	0.30 - 0.90
Chromium (Cr)	0.0 - 0.10
Magnesium (Mg)	1.20 - 1.80
Zinc (Zn)	0.0 - 0.25
Titanium (Ti)	0.0 - 0.15
Other (Each)	0.0 - 0.05
Others (Total)	0.0 - 0.15
Aluminium (Al)	Balance

Physical Properties (for guidance only)

Melting Point	640 °C
Thermal Expansion	23.1 x 10 ⁻⁶ /K
Modulus of Elasticity	73 GPa
Thermal Conductivity	121 W/m.C
Electrical Resistivity	5.7 uΩ cm

Note.

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