



MULTI METALS

BESPOKE ALUMINIUM SOLUTIONS

ALUMINIUM DATA SHEET ALLOY GRADE 7075

Alloy 7075 is a very high strength aluminium often found in aerospace applications. This alloy is used where high strength is required and where good resistance to general corrosion is not as important.

Aluminium alloy 7075 also corresponds to: **3.4365, AlZnMgCu1.5 and 9007/2**
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:	Very Good
Brazability:	Not Recommended
Workability - Cold:	Fair
Machinability:	Very Good

Chemical Composition

Element	% Present
Silicon (Si)	0.0 - 0.40
Iron (Fe)	0.0 - 0.50
Copper (Cu)	1.20 - 2.00
Manganese (Mn)	0.0 - 0.30
Chromium (Cr)	0.18 - 0.28
Magnesium (Mg)	2.10 - 2.90
Zinc (Zn)	5.10 - 6.10
Titanium (Ti)	0.0 - 0.20
Other (Each)	0.0 - 0.05
Others (Total)	0.0 - 0.15
Aluminium (Al)	Balance

Physical Properties (for guidance only)

Melting Point	635 °C
Thermal Expansion	23.5 x 10 ⁻⁶ /C
Modulus of Elasticity	72 GPa
Thermal Conductivity	134 W/m.C
Electrical Resistivity	5.2 uΩ cm

Note.

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