

Aluminium Alloy

QQ-A-250 / 13 T6 Sheet

SPECIFICATIONS

Commercial	7075 CLAD
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A high strength aerospace aluminium alloy

CHEMICAL COMPOSITION

SAE AMS QQ-A-250/13 Alloy QQ A 250/13	
Element	% Present
Zinc (Zn)	5.1 - 6.1
Magnesium (Mg)	2.1 - 2.9
Copper (Cu)	1.2 - 2
Iron (Fe)	0.5 max
Silicon (Si)	0.4 max
Chromium (Cr)	0.18 - 0.35
Manganese (Mn)	0.3 max
Titanium (Ti)	0.2 max
Others (Total)	0.15 max
Other (Each)	0.05 max
Aluminium (Al)	Balance

ALLOY DESIGNATIONS

Aluminium alloy QQ-A-250/13 has similarities to the following standard designations and specifications **but may not be a direct equivalent:**
AMS 4049, AMS4278, Alloy 7075, UNS A97075

TEMPER TYPES

Alloy QQ-A-250/13 is supplied in a range of tempers

- T6 - Solution heat treated and artificially aged
- T62 - Solution heat treated then artificially aged by the user
- T651 - Solution heat treated, stress relieved by stretching then artificially aged

SUPPLIED FORMS

Alloy QQ-A-250/13 is supplied in CLAD sheet and plate

- Sheet
- Plate

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.71 g/cm ³
Melting Point	635 °C
Thermal Expansion	23.5 x10 ⁻⁶ /K
Modulus of Elasticity	72 GPa
Thermal Conductivity	134 W/m.K
Electrical Resistivity	33 % IACS

MECHANICAL PROPERTIES

These are for clad sheet in the T6 temper

Thickness (mm)	Proof Strength (Min)	Tensile Strength (Min)	Elongation % (Min)
Over 0.3 up to & incl. 0.9	414	483	7
Over 0.9 up to & incl. 1.5	427	496	8
Over 1.6 up to & incl. 4.7	434	503	8

CONTACT

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REVISION HISTORY

Datasheet Updated	03 January 2014
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This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

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