

SPECIFICATIONS

Commercial	7075 Bare

A high strength aerospace aluminium alloy with, depending upon temper, Yield Strength of up to 54ksi (370 MPa) and Tensile Strength of up to 67 ksi (460 MPa)

CHEMICAL COMPOSITION

SAE AMS QQ-A-250/12 Alloy QQ A 250/12				
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			
Manganese (Mn)	0.3 max			
Chromium (Cr)	0.18 - 0.28			
Titanium (Ti)	0.2 max			
Others (Total)	0.15 max			
Other (Each)	0.05 max			
Aluminium (Al)	Balance			

ALLOY DESIGNATIONS

Aluminium alloy QQ-A-250/12 has similarities to the following standard designations and specifications **but may not be a direct equivalent:** AMS 4044, Alloy 7075, UNS A97075

TEMPER TYPES

Alloy QQ-A-250/12 is supplied in a wide range of tempers:

- 0 Soft
- T351 Solution heat treated then stress relieved by stretching. Equivalent to T4 condition.
- 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
- T6510 Solution heat treated and stress-relieved by stretching then artificially aged with no straightening after aging
- T73 Solution heat treated then specially artificially aged for resistance to stress corrosion

SUPPLIED FORMS

Alloy QQ-A-250/12 is supplied in 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

Mechanical Properties shown are for T6 temper sheet

Thickness (mm)	Proof Strength (Min)	Tensile Strength (Min)	Elongation % (Min)
Over 0.3 up to & incl. 0.9	462	524	7
1.0 up to & incl. 3.17	469	538	8
3.2 up to & incl. 6.3	476	538	8



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REVISION HISTORY

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