Aluminium Alloy QQ-A-250/11 '0' Sheet



SPECIFICATIONS

Commercial	6061
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A medium strength aerospace aluminium alloy with, depending upon temper, Yield Strength of up to 35 ksi (240 MPa) and Tensile Strength of 42 ksi (290 MPa)

CHEMICAL COMPOSITION

SAE AMS QQ-A-250/11 Alloy QQ A 250/11					
Element	% Present				
Magnesium (Mg)	0.8 - 1.2				
Silicon (Si)	0.4 - 0.8				
Iron (Fe)	0.7 max				
Copper (Cu)	0.15 - 0.4				
Chromium (Cr)	0.04 - 0.35				
Zinc (Zn)	0.25 max				
Manganese (Mn)	0.15 max				
Titanium (Ti)	0.15 max				
Others (Total)	0.15 max				
Other (Each)	0.05 max				
Aluminium (Al)	Balance				

ALLOY DESIGNATIONS

Aluminium alloy QQ-A-250/11 has similarities to the following standard designations and specifications **but** may not be a direct equivalent:

Alloy 6061, UNS A96061, ASTM B209, AMS 4026, AMS 4027

TEMPER TYPES

Alloy QQ-A-250/11 is supplied in a wide range of tempers:

- O Soft
- T4 Solution heat treated and naturally aged to a substantially stable condition
- T42 Solution heat treated and naturaly aged to a substantially stable condition
- T451 Solution heat treated then stress relieved by stretching. Equivalent to T4.
- 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-250/11 is supplied in plate and sheet

- Plate
- Sheet

GENERIC PHYSICAL PROPERTIES

Property	Value	
Density	2.63 g/cm ³	
Melting Point	650 °C	
Thermal Expansion	23.3 x10 ⁻⁶ /K	
Modulus of Elasticity	70 GPa	
Thermal Conductivity	180 W/m.K	
Electrical Resistivity	46.5 % IACS	

MECHANICAL PROPERTIES

Mechanical Properties shown are for '0' temper

Thickness (mm)	Proof Strength (Min)	Tensile Strength (Min)	Elongation % (Min)
Over 0.2 up to & incl. 0.5	83	152	14
Over 0.5 up to & incl. 3.2	83	152	16
Over 3.2 up to & incl. 12.8	83	152	18



CONTACT

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REVISION HISTORY

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