



Aluminium Alloy - QQ-A-225/9 T7351 Bar

SPECIFICATIONS

Aerospace	QQ-A-225/9 T7351
Commercial	7075

A high strength aerospace aluminium alloy offering good corrosion resistance.

CHEMICAL COMPOSITION

SAE AMS QQ-A-225/9 Alloy QQ A 225/9	
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

TEMPER TYPES

Alloy QQ-A-225/9 is supplied in a range of tempers:

- T651 - Solution heat treated, stress relieved by stretching then artificially aged
- T7351 - Solution heat treatment then specially artificially aged for resistance to stress corrosion.

SUPPLIED FORMS

Alloy QQ-A-225/9 T651 is supplied in bar/rod

- Bar

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.81 g/cm ³
Melting Point	635 °C
Thermal Expansion	23.5 x10 ⁻⁶ /K
Modulus of Elasticity	72 GPa
Thermal Conductivity	134-160 W/m.K
Electrical Resistivity	40 % IACS

'Typical' Physical Properties are given

MECHANICAL PROPERTIES

SAE AMS QQ-A-225/9 Bar 12.7mm to 76.2mm	
Property	Value
Proof Stress	386 Min MPa
Tensile Strength	469 Min MPa
Elongation A50 mm	10 Min %

Mechanical Properties are for T7351 temper Bar in diameters 12.7mm to 76mm



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CONTACT

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REVISION HISTORY

Datasheet Updated	14 January 2019
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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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