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 artifically 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/cm³
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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GOULD ALLOYS
THE LEADING EDGE IN METALS

CONTACT

Address: Gould Alloys Ltd
Markham Lane
Markham Vale
Chesterfield
S44 5HS
United Kingdom
Tel: +44 (0) 1246 263300
Email: sales@gouldalloys.co.uk
Web: www.gouldalloys.co.uk

REVISION HISTORY

Datasheet Updated	14 January 2019

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