

# Aluminium

# QQ-A-225/8 T651 (6061) Bar & Extrusion

Datasheet Updated 18 July 2022

SPECIFICATIONS	
Commercial	6061
Aerospace	QQ-A-225/8 T651

Medium strength aerospace aluminium alloy.

## CHEMICAL COMPOSITION

#### SAE AMS QQ-A-225/8 Alloy QQ A 225/8

Element	% Present
Silicon (Si)	0.40 - 0.80
Iron (Fe)	0.00 - 0.70
Copper (Cu)	0.15 - 0.40
Manganese (Mn)	0.00 - 0.15
Chromium (Cr)	0.04 - 0.35
Magnesium (Mg)	0.80 - 1.20
Zinc (Zn)	0.00 - 0.25
Titanium (Ti)	0.00 - 0.15
Other (Each)	0.00 - 0.05
Others (Total)	0.00 - 0.15
Aluminium (Al)	Balance

# ALLOY DESIGNATIONS

Aluminium alloy QQ-A-225/8 has similarities to the following standard designations and specifications **but may not be a direct equivalent:** 

- AMS 4113
- AMS 4115
- Alloy 6061
- UNS A96061

### **TEMPER TYPES**

Alloy QQ-A-225/8 is supplied in a wide range of tempers:

- T42
- T451
- T62
- T4
- T651
- 0
- T6

### SUPPLIED FORMS

- Bar
- Wire
- Extrusions

#### APPLICATIONS

- Aerospace components
- Defence components
- High technology applications

#### CHARACTERISTICS

- Very good machinability
- Very good weldability using inert gas, resistance, spot or beam welding. Other welding methods are not recommended.
- Good resistance to atmospheric corrosion



METALS AND PLASTICS



#### **MECHANICAL PROPERTIES**

#### **SAE AMS QQ-A-225/8**

#### Bar 12.7mm to 203.2mm

Property	Value
Proof Stress	241 Min MPa
Tensile Strength	290 Min MPa
Elongation A50 mm	10 Min %

#### DISCLAIMER

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