

QQ-A-200/8 - AMS4150 - AMS4173 - 6061

Additional Information

Aluminium alloy QQ-A-200/8 has similarities to the following standard designations and specifications

but may not be a direct equivalent

AMS 4150

AMS 4173

Chemical Properties

Element	Chemical Composition %
Magnesium (Mg)	0.80 - 1.20
Silicon (Si)	0.40 - 0.80
Iron (Fe)	0.0 - 0.70
Copper (Cu)	0.15 - 0.40
Chromium (Cr)	0.04 - 0.35
Zinc (Zn)	0.0 - 0.25
Titanium (Ti)	0.0 - 0.15
Manganese (Mn)	0.0 - 0.15
Others (Total)	0.0 - 0.15
Other (Each)	0.0 - 0.05
Aluminium (Al)	Balance

Mechanical Properties

Dia (mm)	Proof Strength (Min)	Tensile Strength (Min)	Elongation (% Min)
Up to & incl. 6.3	241	262	8
Over 6.3	241	262	10

Physical Properties

Property	Value
Density	2.70 g/cm ³
Melting Point	650 °C
Thermal Expansion	23.4 x 10 ⁻⁶ /K
Modulus of Elasticity	70 GPa
Thermal Conductivity	166 W/m.K
Electrical Resistivity	0.040 x 10 ⁻⁶ Ω .m

Temper Types

Alloy QQ-A-200/8 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 naturally aged to a substantially stable condition

T4510 - Solution heat treated and stress-relieved by stretching. Equivalent to T4 condition

T4511 - Solution heat treated and 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

T6510 - Solution heat treated and stress-relieved by stretching then artificially aged with no

straightening after aging - Equivalent to T4 condition

Disclaimer

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