QQ-A-200/11 - AMS4166 - AMS4168 - AMS4169 - 7075

Additional Information

Aluminium alloy QQ-A-200/11 has similarities to the following standard and designations and specific

but may not be a direct equivalent:

AMS 4166

AMS 4168

AMS 4169

Chemical Properties

Element	Chemical Composition %
Zinc (Zn)	5.10 - 6.10
Magnesium (Mg)	2.10 - 2.90
Copper (Cu)	1.20 - 2.00
Iron (Fe)	0.0 - 0.50
Chromium (Cr)	0.18 - 0.28
Silicon (Si)	0.0 - 0.40
Manganese (Mn)	0.0 - 0.30
Titanium (Ti)	0.0 - 0.20
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	482	538	7
Over 6.3 up to & incl. 12.7`	503	558	7
Over 12.7 up to & incl. 76.2	496	558	7
Over 76.2 up to & incl. 114	489	558	7
Over 114 up to & incl. 127	469	538	6

Physical Properties

Property	Value
Density	2.81 g/cm^3
Melting Point	635 °C
Thermal Expansion	23.5 x 10^{-6} /K
Modulus of Elasticity	72 GPa
Thermal Conductivity	134-160 W/m.K
Electrical Resistivity	40% IACS

Temper Types

Alloy QQ-A-200/11 is supplied in a wide range of tempers:

O - Soft

T6 - Solution head 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

T6511 - Solution heat treated and stress-relieved by stretching then artificially aged with minor
straightening after aging - Equivalent to T4 condition
T73 - Solution heat treated then specially artificially aged for resistance to stress corrosion
T7310
T7311
T8511 - Solution heat treated, stress-relieved by stretching then artificially aged
T7351 - Solution heat treatment then specially artificially aged for resistance to stress corrosion
T73511

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