

Mic 6[®] Aluminum Cast Plate is known for its good machining qualities. It is known for its consistency between plates and reduces the risk of disrupting material stability by entrapping stress. The cast granular structure and stress relieving property of Mic 6[°] Aluminum Cast Plate help contribute to its light weight, smooth flatness and tolerance.

Chemical Properties

This alloy is similar to those in the 7000 series with precise adaptable additions of Zinc, Copper, Magnesium and components of Silicon, Iron and Manganese.

Other Industry Standards

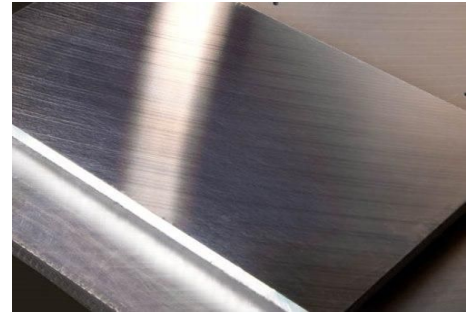
- DFARS Compliant

Forms & Thicknesses Stocked

- Plate – 0.250” – 2.000”

Applications

- Machine components
- Aerospace and automotive components
- Electronics
- Laser technology and optical industry



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Features: The cast granular structure and stress relieving properties of Mic6 Aluminum Cast Plate allows high-speed metal removal with little, if any of the distortion commonly inherent in flat-rolled metals.

Physical Properties

Properties	Value
Coefficient of Thermal Expansion	13.1 $\mu\text{in/in-}^\circ\text{F}$ 20-100°C, 68-212°F
Coefficient of Thermal Expansion	13.6 $\mu\text{in/in-}^\circ\text{F}$ 20-200°C, 38-392°F
Thermal Conductivity	985 Btu-in/hr-ft ² -°F, 142 W/m-K
Volume Resistivity, $\Omega\text{-cm}$	0.00000479

Mechanical Properties

Properties	Value
Yield Strength	105 MPa 15200 psi
Tensile Strength	165 MPa, 23900 psi
Elongation at Break	3%
Hardness Brinell	65
Modulus of Elasticity, ksi	71.0 Gpa 10300 KSI
Density	2.7 g/cm ³ (.101 lb/in ³)