

Mic 6<sup>®</sup> has the most advanced manufacture in the cast plate industry. It promotes consistency between plates and reduces the risk of disrupting material stability by entrapping stress. The cast granular structure and stress relieving properties of Mic 6<sup>®</sup> Aluminum Cast Plate contribute to its light weight, smooth flatness tolerance, and good machining qualities.

**Features**

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

**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.

**Applications**

- Machining Components
- Aerospace and automotive components
- Electronics
- Laser Technology and Optical Industry

**Modules of Elasticity  
 Density**

71.0 GPa 10300 KSI  
 2.7 g/cm<sup>3</sup> (.101 lb/in<sup>3</sup>)

**Mechanical Properties**

Property		
Yield Strength	105 MPa	15200 psi
Tensile Strength	165 MPa	23900 psi
Percent Elongation	3%	
Brinell	65	

**Electrical Properties**

Volume Resistivity = 0.00000479 0.00000479 ohm-cm

**Coefficient of Thermal Expansion**

Temperature Range		Coefficients
°C	°F	in/in/°F
20-100	68-212	13.1 $\mu$ in/in-°F
20-200	38-392	13.6 $\mu$ in/in-°F

**Thermal Conductivity**

Temperature Range		
	°F	K
	985 BTU-in/hr-ft <sup>2</sup> -°F	142 W/m-K