

Key Features

- Good corrosion resistance
- Excellent machinability
- Fine, flat surface finish

Common Applications

- Aerospace
- Marine fitting
- Electronics
- Decorative hardware
- Hydraulic equipment
- Cameras

Material Description

MIC 6 is a high-strength cast aluminum alloy known for its excellent machinability and dimensional stability. It is specifically formulated to have minimal internal stress and distortion during machining, making it ideal for precision applications such as tooling plates, fixtures, and structural components where tight tolerances and flatness are critical.

Chemical Composition (%)

	Al	Cr	Cu	Fe	Mg	Mn	Si	Ti		
Min.	91.4	0.02	0.20		0.01	1.00	0.40	0.01		
Max.	95.7	0.30	0.60	0.10	0.50	1.50	0.80	0.10		

Mechanical Properties

Ultimate Tensile Strength	23,900 PSI
Tensile Yield Strength	15,200 PSI
Hardness	Rockwell B27
Elongation at Break	3%

Physical Properties

Density	0.101 lb/in ³ (2.7 g/cm ³)
Thermal Conductivity	142W/m.K
Modulus of elasticity	10,300 KSI (71.0 GPa)
Melting Point	1,076 – 1,184°F (580 – 640 °C)

Technical Assistance

Our knowledgeable staff, supported by our in-house team of expert metallurgists and engineers, is ready to assist you with any technical inquiries.

InstaVoxel™ – On-Demand Manufacturing Expert

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InstaVoxel's quality control system is ISO-9001 certified, and all our partners hold relevant certifications.



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