# Aluminum MIC6

Aluminum MIC-6 is cast tooling plate with excellent flatness for CNC fixtures.

## Mechanical properties

| | |
|---|---|
| Ultimate tensile strength | 160-170 MPa |
| Yield strength | 70-130 MPa |
| Young's modulus (modulus of elasticity) | 71 GPa |
| Elongation at break | 3-7 % |

## Physical properties

| | |
|---|---|
| Corrosion resistance | Good |
| Magnetism | Non-magnetic |
| Weldability | Good |

## Thermal properties

| | |
|---|---|
| Maximum service temperature | 427 °C |
| Thermal expansion coefficent | 23.6 - 24.5 10^-6/ºC |
| Thermal conductivity | 142 W/(m·°C) |

## Electrical properties

| | |
|---|---|
| Electrical resistivity | 4.79 µΩ*cm |

## Post treatments

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|---|---|
| Post-Processing | In Annealed condition when processed |
| Anodizing compatibility | Suitable |

## Common applications

| | |
|---|---|
| Machining Components | |
| | |

| | |
|---|---|
| Electronics | |
| Laser technology | |
| Aerospace & automotive components | |

**Aluminum MIC-6 Cast Plate CNC Machining Applications & Parts**

MIC-6 is a stress-relieved, aluminum cast tooling plate known for its unparalleled stability and flatness. It features a fine-grain structure and is perfect for machining precise, flat parts that must not warp.

**Typical Parts We Machine from MIC-6:**

- **Jigs, Fixtures & Tooling:** Assembly jigs, inspection fixtures, ground flatness gauges, mold bases
- **Precision Machinery:** Optical mounting plates, semiconductor tooling stages, robotic end-effector plates
- **Automation & Testing:** Lamination plates, vacuum chucks, metrology equipment bases, test fixture plates

**Our Machining Advantage:**

We leverage the inherent stability of MIC-6 to machine complex features and hold ultra-tight tolerances without the risk of internal stress relief warping, guaranteeing parts that remain perfectly flat.

**Get an Instant Quote for your custom Aluminum MIC-6 parts today.**