

Alcoa MIC-6 Aluminum Mold Alloy

Category : Metal , Nonferrous Metal , Aluminum Alloy , Aluminum Casting Alloy

Material Notes:

MIC-6 is a blend of the most desirable features of many individual metals. The result is a cast aluminum plate that meets the challenge of product accuracy demanded by today's industry. Because of its cast granular structure and stress relieving properties, MIC-6 allows high-speed metal removal with little, if any, of the distortion commonly inherent in long grained wrought, flat-rolled metals. Using proper aluminum machining methods, tolerances in the thousandths can be consistently maintained. MIC-6 is finished to 20 microinches typical on both sides. Thickness tolerances is within +/- .005" from nominal on 1/4"- 4". Flatness tolerance is maintained within .015" on 1/4"-5/8" thickness and .005" on 3/4"- 4" thickness. Thermal Cycling can be performed up to 800° F under controlled conditions. MIC-6 is produced by continuous casting with each thickness individually cast. By utilizing the most recent developments in casting techniques, the molten metal is continuously fed, eliminating defects from lapses and seams. Thermal gradients are stabilized since heat is removed from both plate surfaces at a balanced rate. The employment of a SNIF filtering and degassing system ensures an end product free of voids and impurities. Information provided by Alcoa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Alcoa-MIC-6-Aluminum-Mold-Alloy.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	65	65	
Tensile Strength, Ultimate	165 MPa	23900 psi	
Tensile Strength, Yield	105 MPa	15200 psi	
Elongation at Break	3.0 %	3.0 %	
Modulus of Elasticity	71.0 GPa	10300 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	23.6 $\mu\text{m}/\text{m}\cdot\text{°C}$	13.1 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
	24.5 $\mu\text{m}/\text{m}\cdot\text{°C}$	13.6 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 200 °C	@Temperature 68.0 - 392 °F	
Thermal Conductivity	142 W/m-K	985 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.00000479 ohm-cm	0.00000479 ohm-cm	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China