

ALPASE M-5

ALUMINUM MOLD PLATE

Proven technology in a 5000 series aluminum alloy.

M-5 APPLICATIONS

M-5 Mold Plate is used in a variety of manufacturing applications:

- Injection Molds
- Blow Molds
- Structural Foam Molds
- Rubber Molds
- Vacuum Forming Tools
- Compression Molds
- Heating and Cooling Plates
- Semi-conductor & Solar Equipment

M-5 PROPERTIES

Tensile Strength	41 ksi	Coefficient of Expansion	13.2×10^{-6} (68°-212°F)
Yield	18 ksi	Electrical Conductivity	29% (I.A.C.S)
Elongation	12%-15%	Microstructure	Vacuum Tight
Hardness	70 HB	Thermal Conductivity	81 Btu/ft h x °F
Density	.096 lb./in ³	Modulus of Elasticity	$10.3 \text{ KSI} \times 10^6$

Information provided does not imply a guarantee of properties or capability of manufacturing or use.

Surface Condition

Milled Surface Top and Bottom

Quality

M-5 plates are U/T inspected

Tolerances

Thickness +1/8" - 0"
Width/Length +1/4" - 0"

Standard Sizes

Thickness Up to 30"
Widths Up to 96"
Lengths Up to 195"



New Technologies
In Aluminum



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TST INC

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Alpase is a leading integrated cast plate producer. M-5 offers mold builders the same proven Alpase technology used to produce the industry leading M-1 Aluminum Mold Plate specified by engineers for over 30 years. M-5 has the benefits of excellent corrosion resistance and high dimensional stability without stress relieving.

Providing a 5% reduction in weight vs M-1, good polishing and anodizing capabilities...

M-5 is the material of choice for professionals for decades

Produced in the USA



M-5 Product Features and Benefits

- Elongation - 12% - 15%
- Excellent weld-ability
- Surface Condition- Machine top and bottom to reduce handling and machining steps
- Dimensional Stability- High dimensional stability during and after machining
- Polishing- Good polish properties
- Good Anodizing and Hard corrosion resistance in many applications
- Corrosion Resistance- Excellent corrosion resistance in many applications
- Low density offers a 5% weight savings over other cast products
- Very consistent hardness and mechanical properties throughout its entire thickness range, regardless of size