

ALPASE M-5™

ALUMINUM MOLD PLATE - PROVEN ALPASE MOLD
PLATE TECHNOLOGY IN A 5000 SERIES ALUMINUM ALLOY.

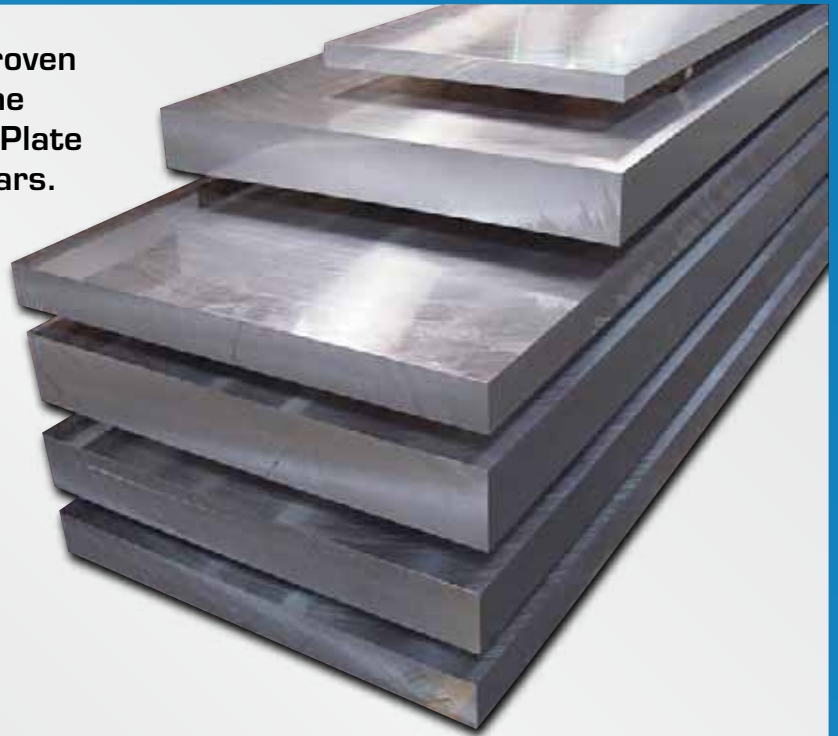


TST, Inc.
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M-5 offers mold builders the same proven Alpase technology used to produce the industry leading M-1 Aluminum Mold Plate specified by engineers for over 20 years. M-5 has the benefit of excellent corrosion resistance and high dimensional stability without stress relieving.

Combined with a 5% reduction in weight, good polishing and anodizing capabilities, M-5 may be the choice for your application.

Produced in the USA



M-5 Product Features and Benefits

- Elongation - 12% - 15%
- Excellent weldability
- Surface Condition - Machined top and bottom to reduce costly handling and machining steps
- Dimensional Stability - High dimensional stability during and after machining
- Polishing - Good polishing properties
- Good Anodizing and Hard Coating properties
- 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

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M-5 APPLICATIONS

M-5 Aluminum Mold Plate is used in a large variety of molding applications. Proven applications include: Injection Molds, Blow Molds, Structural Foam Molds, and Rubber Molds. Additional uses include: Vacuum Forming Tools, Compression Molds, Heating and Cooling Plates and proven Semi-conductor Transfer Chamber applications. Careful consideration and analysis of properties play an important role in selecting the right aluminum for different molding applications. Contact an Alpanse representative for additional information regarding your choices.

M-5 TYPICAL PROPERTIES

Typical Tensile Strength	41 ksi	Coefficient of Expansion	13.2 x 10 ⁻⁶ (68" - 212°F)
Typical Yield	18 ksi	Electrical Conductivity	29% (I.A.C.S.)
Typical Elongation	12% - 15%	Microstructure	Vacuum Tight
Typical Hardness	70 HB	Thermal Conductivity	81 Btu/ft x h x °F
Density	0.096 lb./in ³	Modulus of Elasticity	10.3 KSI x 10 ³
Dimensional Stability	Consistently Stable		

Surface Condition

Milled Surface Top and Bottom

Quality

M-5 plates are U/T inspected to MIL-Spec 2154-Class A

Tolerances

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

Standard Sizes

Thickness	Up to 30"
Widths	Up to 88"
Lengths	Up to 195"

Non-Standard Thicknesses

Special Inquiry

Close Tolerances

Special Inquiry

New Technologies
In Aluminum



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