

# ALPASE M-1

## ALUMINUM MOLD PLATE

DEVELOPED FOR THE PLASTIC AND MOLDING INDUSTRIES



**TST INC**

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Alpase is a leading integrated cast plate producer. M1 cast aluminum mold block is the brand leader for molding applications worldwide. It's attributes include high strength, stability during machining and uniform grain. M1 was designed by the plastics and mold industry.

M1 has excellent elevated temperature properties and heat transfer capabilities in a cast product allowing quicker cycle times during the manufacturing process. This makes Alpase's M1 more cost effective than wrought aluminum and tool steel by lowering machining costs.



### M-1 Product Features and Benefits

**Density:** M-1 offers a very tight equiaxed grain structure that is metallurgically sound throughout. This is achieved using modern technologies in casting, cooling and homogenization processes.

**Brinell Hardness:** Highly consistent throughout the entire plate regardless of thickness.

**Machinability:** Aluminum machining rates are over 3 times that of steel and M-1 is rated very high among aluminum alloys. M-1 has the capability of achieving an excellent surface finish.

**Weldability:** Maintains its mechanical properties in and adjacent to weld areas without additional heat treatment unlike wrought alloys.

**Dimensional Stability:** Unlike wrought alloys, M-1 maintains dimensional stability during machining without stress relieving.

**Hardcoat Anodize:** M-1 conforms well to hard-coat anodizing as well as Nickel Coating.

**Cost Efficiency:** Decreases production costs and increases productivity better than tool steel or wrought aluminum molds. High thermal conductivity allows for shorter cycle times.

