



# DURAMOLD-2™ ALUMINUM MOLD PLATE

*Highest caliber. So is the metal.™*

Vista Metals Corp. is committed to meeting the diverse needs of its customers by providing our Duramold line of Aluminum Mold Plate products. **Duramold-2™** was designed by Vista Metals Corp. to offer mold builders a superior aluminum plate product for applications where increased hardness and strength are required to meet their production expectations. In continuous production since 1988, our state of the art technology combines this unique aluminum-copper alloy with our unparalleled size capabilities to offer aluminum plate for plastic mold applications ranging from small to extremely large. **Duramold-2™** has outstanding machinability and responds very well in today's high speed cutting environments. **Duramold-2™** is the best choice when higher mold operating temperatures are part of the equation.

## DURAMOLD-2™ ALUMINUM MOLD PLATE ADVANTAGES:

- Vista Metals V-Class Quality Assurance
- Superior Strength at Elevated Temperatures
- Available up to 38" Thick & 94" Wide
- Dimensionally Stable During Machining
- Fully Homogenized & Stress Relieved
- Consistent Properties Throughout Entire Plate
- Accepts Anodized, Nickel & Other Coatings
- Suitable For Many Polished Surface Applications
- Accepts Anodized, Nickel & Other Coatings
- Increased Mechanical Properties
- Equiaxial Fine Grain Structure
- Excellent Machinability
- Vacuum & Pressure Integrity Guaranteed
- Ultrasonically Inspected
- Modified 2618 Aluminum Alloy
- Excellent Welding Characteristics
- Accepts Mold Finishes and Textures
- Virtually Any Thickness up to 38" Available

## DURAMOLD-2™ APPLICATIONS

Plastic Molds From Prototype to Production, Injection Molds, Blow Molds, Rubber Molds, Structural Foam Molds, Thermoforming Molds, RIM Molds, RTM Molds, Compression Molds, Composite Molds, Aerospace Fixtures, Robotic Components, Inspection Tables & Tools, Semiconductor & Solar Manufacturing Components, Printing Machinery, Foundry Patterns, Packaging Machinery, Index Tables, Assembly Tables, Vacuum Tables, Router Tables, Heating and Cooling Platens. Product designers worldwide are discovering new applications continuously.

**Welding Guidelines Available Upon Request**

**SPECIFICATIONS AND PROPERTIES ON BACKSIDE** 



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## DURAMOLD-2™ PROPERTIES (TYPICAL):

|                                   | IMPERIAL  | METRIC  |
|-----------------------------------|---|---|
| Tensile Strength:                 | 38 ksi  | 262 MPa   |
| Yield Strength:                   | 20 ksi  | 138 MPa   |
| Elongation in 2":                 | 7-9%  | 7-9%  |
| Hardness:                         | 81HB  | 81 HB   |
| Density:                          | .101 lb/in <sup>3</sup>   | 2800 kg/m <sup>3</sup>  |
| Thermal Conductivity:             | 95 Btu/ft x h x °F  | 164 W/mK  |
| Electrical Conductivity:          | 39% IACS  | 39% IACS  |
| Modulus of Elasticity:            | 10.7 x 10 <sup>6</sup> psi  | 74,000 MPa  |
| Coefficient of Thermal Expansion: | 68-212 °F 12.4 x 10 <sup>-6</sup><br>213-392 °F 12.9 x 10 <sup>-6</sup> | 20-100 °C 22.3 x 10 <sup>-6</sup><br>101-200 °C 23.2 x 10 <sup>-6</sup> |

## DURAMOLD-2™ SPECIFICATIONS:

|                                | IMPERIAL   | METRIC  |
|--------------------------------|--|---|
| Surface Condition & Roughness: | Machined 2 Sides*<br>or<br>(25 RMS)<br>Sawed Surface*                            | Machined 2 Sides*<br>or<br>(25 RMS)<br>Sawed Surface*                             |
| Gauges:                        | 2" to 38"  | 51mm - 965mm  |
| Gauge Tolerance:               | (+.125"/-0)  | (+3.175mm/-0)   |
| Widths:                        | Up to 94"  | Up to 2388mm  |
| Width Tolerance:               | (+.250"/-0)  | (+6.35mm/-0)  |
| Lengths:*                      | Up to 170" long<br>(gauges 2" - 30")<br>Up to 100.0" long<br>(gauges 31" to 38") | Up to 3823mm Long<br>(gauges 51-762mm)<br>Up to 2540mm Long<br>(gauges 787-965mm) |
| Length Tolerance:              | (+.250"/-0)<br>*Longer lengths<br>available on inquiry                           | (+6.35mm/-0)<br>*Longer lengths<br>available on inquiry                           |
| Edges:                         | Saw Cut  | Saw Cut   |

### Authorized Distributor of Plate Products



toll free: **888-744-6868**  
**www.midweststeelsupply.com**



\*Supplied with machined surfaces or sawcut surfaces by distributor specification.



For assistance in choosing the product that will best fit your application, please contact one of our technical specialists listed below:

#### DIRECTOR OF SALES - PLATE PRODUCTS

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#### VISTA METALS CORP.

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ALL VISTA METALS PRODUCTS ARE PROUDLY PRODUCED IN THE U.S.A.