



*Highest caliber. So is the metal.™*

# DURAMOLD-2™ ALUMINUM MOLD PLATE

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
- Superior Anodizing & Coating Characteristics
- 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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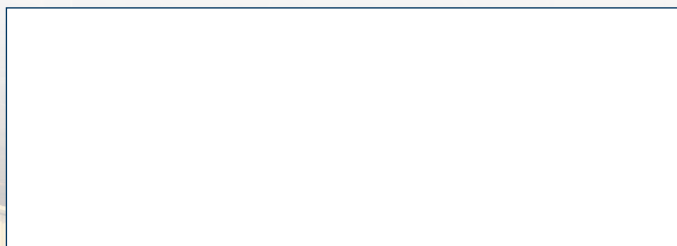
## DURAMOLD-2™ PROPERTIES (TYPICAL):

	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> 213-392 °F 12.9 x 10 <sup>-6</sup>	20-100 °C 22.3 x 10 <sup>-6</sup> m/m°C 101-200 °C 23.2 x 10 <sup>-6</sup> m/m°C

## DURAMOLD-2™ SPECIFICATIONS:

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

### Authorized Distributor of Plate Products



**\*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

Dwayne Gordon (*Technical Specialist*)  
Office: 517.543.6100 Cell: 517.897.4945  
Email: Dwayne@Vistametals.com

### REGIONAL SALES MANAGER - PLATE PRODUCTS

Stan Kowaleski (*Technical Specialist*)  
Office: 330.630.3105 Cell: 330.515.6540  
Email: Stan@Vistametals.com

### PLATE PRODUCTS CONTACT INFO:

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### INSIDE SALES REPRESENTATIVE - 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. 