Vista Metals Corp. is committed to meeting the diverse needs of its customers by providing our Duramold line of Aluminum Mold Plate products. **Duramold-5™** is another premier product developed by Vista Metals Corp. to offer mold builders an additional option for their plastic mold applications. Our state of the art technology combines this aluminum-magnesium alloy with our unparalleled size capabilities for plastic mold applications ranging from small to extremely large. With slightly less strength and hardness than Duramold-2™, the 5% weight reduction of this alloy offers a high strength to weight ratio for consideration in applications where higher mold operating temperatures are not of concern.

**DURAMOLD-5™ ALUMINUM MOLD PLATE ADVANTAGES:**

- Vista Metals V-Class Quality Assurance
- Available up to 38” Thick & 94” Wide
- Fully Homogenized & Stress Relieved
- Dimensionally Stable During Machining
- Consistent Properties Throughout Entire Plate
- Suitable For Many Polished Surface Applications
- Virtually Any Thickness up to 38” Available
- Accepts Anodized, Nickel & Other Coatings
- Accepts Mold Finishes and Textures

1. Passes ASTM-B117 Standard Salt Spray (Fog) Corrosion Test
2. Density offers a weight savings over other rolled aluminum and mold plate products.

**DURAMOLD-5™ APPLICATIONS**


**Welding Guidelines Available Upon Request**

**SPECIFICATIONS AND PROPERTIES ON BACKSIDE**
# DURAMOLD-5™ PROPERTIES (TYPICAL):

<table>
<thead>
<tr>
<th>Property</th>
<th>Imperial</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tensile Strength:</strong></td>
<td>41 ksi</td>
<td>283 MPa</td>
</tr>
<tr>
<td><strong>Yield Strength:</strong></td>
<td>18 ksi</td>
<td>124 MPa</td>
</tr>
<tr>
<td><strong>Elongation in 2</strong>:</td>
<td>12-15%</td>
<td>12-15%</td>
</tr>
<tr>
<td><strong>Hardness:</strong></td>
<td>70 HB</td>
<td>70 HB</td>
</tr>
<tr>
<td><strong>Density:</strong></td>
<td>.096 lb/in³</td>
<td>2660 kg/m³</td>
</tr>
<tr>
<td><strong>Thermal Conductivity:</strong></td>
<td>81 Btu/ft x h x °F</td>
<td>140 W/mK</td>
</tr>
<tr>
<td><strong>Electrical Conductivity:</strong></td>
<td>29% IACS</td>
<td>29% IACS</td>
</tr>
<tr>
<td><strong>Modulus of Elasticity:</strong></td>
<td>10.1 x 10⁻⁶ psi</td>
<td>70,000 MPa</td>
</tr>
</tbody>
</table>
| **Coefficient of Thermal Expansion:** | 68.2-212 °F 13.1 x 10⁻⁶ m/m/°C  
213-392 °F 13.4 x 10⁻⁶ m/m/°C | 20-100 °C 23.6 x 10⁻⁶ m/m/°C  
101-200 °C 24.2 x 10⁻⁶ m/m/°C |

# DURAMOLD-5™ SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Property</th>
<th>Imperial</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Surface Condition &amp; Roughness:</strong></td>
<td>Sawed Surface*</td>
<td>Sawed Surface*</td>
</tr>
<tr>
<td><strong>Gauges:</strong></td>
<td>2” to 38”</td>
<td>51mm - 965mm</td>
</tr>
<tr>
<td><strong>Gauge Tolerance:</strong></td>
<td>(+,125/-0)</td>
<td>(+3.175mm/-0)</td>
</tr>
<tr>
<td><strong>Widths:</strong></td>
<td>Up to 94”</td>
<td>Up to 2388mm</td>
</tr>
<tr>
<td><strong>Width Tolerance:</strong></td>
<td>(+,250/-0)</td>
<td>(+6.35mm/-0)</td>
</tr>
</tbody>
</table>
| **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) |
| **Length Tolerance:**           | (+,250/-0)        | (+6.35mm/-0)      |

*Can be provided in machined surface by special request - Conditions apply

Authorized Distributor of Plate Products

Clinton Aluminum
Innovative Alloys
Toll Free: 800-826-3370
www.Clintonaluminum.com

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:**
Plate Sales Email: Castplate@Vistametals.com
Plate Sales Fax: 909.510.4536

**INSIDE SALES REPRESENTATIVE - PLATE PRODUCTS**
Aaron Ruiz
Office: 909.829.6109 Email: Aaron@Vistametals.com

**VISTA METALS CORP.**
13425 Whittram Ave.
Fontana, CA 92335
Corp. Tel: 909.823.4278

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