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™ ALUMINUM MOLD PLATE**

**DURAMOLD-5™ PROPERTIES (TYPICAL):**

<table>
<thead>
<tr>
<th>Property</th>
<th>Imperial</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength:</td>
<td>41 ksi</td>
<td>283 MPa</td>
</tr>
<tr>
<td>Yield Strength:</td>
<td>18 ksi</td>
<td>124 MPa</td>
</tr>
<tr>
<td>Elongation in 2&quot;:</td>
<td>12-15%</td>
<td>12-15%</td>
</tr>
<tr>
<td>Hardness:</td>
<td>70 HB</td>
<td>70 HB</td>
</tr>
<tr>
<td>Density:</td>
<td>.096 lb/in³</td>
<td>2660 kg/m³</td>
</tr>
<tr>
<td>Thermal Conductivity:</td>
<td>81 Btu/ft x h x °F</td>
<td>140 W/mK</td>
</tr>
<tr>
<td>Electrical Conductivity:</td>
<td>29% IACS</td>
<td>29% IACS</td>
</tr>
<tr>
<td>Modulus of Elasticity:</td>
<td>10.1 x 10^-6 psi</td>
<td>70,000 MPa</td>
</tr>
<tr>
<td>Coefficient of Thermal Expansion:</td>
<td>68.212 °F 13.1 x 10^-6 m/m/C</td>
<td>20-100 °C 23.6 x 10^-6 m/m/C</td>
</tr>
<tr>
<td></td>
<td>213.392 °F 13.4 x 10^-6 m/m/C</td>
<td>101-200 °C 24.2 x 10^-6 m/m/C</td>
</tr>
</tbody>
</table>

**DURAMOLD-5™ SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Imperial</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Condition &amp; Roughness:</td>
<td>Sawed Surface*</td>
<td>Sawed Surface*</td>
</tr>
<tr>
<td>Gauges:</td>
<td>2” to 38”</td>
<td>51mm - 965mm</td>
</tr>
<tr>
<td>Gauge Tolerance:</td>
<td>(+,-.125&quot;)/(-0)</td>
<td>(+,3.175mm/-0)</td>
</tr>
<tr>
<td>Widths:</td>
<td>Up to 94”</td>
<td>Up to 2388mm</td>
</tr>
<tr>
<td>Width Tolerance:</td>
<td>(+,.250&quot;)/(-0)</td>
<td>(+,6.35mm/-0)</td>
</tr>
<tr>
<td>Lengths:*</td>
<td>Up to 170” long (gauges 2” - 30&quot;)</td>
<td>Up to 3823mm Long (gauges 31” to 762mm)</td>
</tr>
<tr>
<td></td>
<td>Up to 100.0” long (gauges 31” to 38”)</td>
<td>Up to 2540mm Long (gauges 787-965mm)</td>
</tr>
<tr>
<td>Length Tolerance:</td>
<td>(+,.250&quot;)/(-0)</td>
<td>(+,6.35mm/-0)</td>
</tr>
<tr>
<td>Edges:</td>
<td>Saw Cut</td>
<td>Saw Cut</td>
</tr>
</tbody>
</table>

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

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

*Authorized Distributor of Plate Products*

**Midwest Steel and Aluminum**
toll free: 888-744-6868
www.midweststeelsupply.com

Authorized Distributor of Plate Products

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

*Authorized Distributor of Plate Products*

**Midwest Steel and Aluminum**
toll free: 888-744-6868
www.midweststeelsupply.com

Authorized Distributor of Plate Products