



DURAMAX-10™

ALUMINUM MOLD PLATE

Highest caliber. So is the metal.™

Vista Metals Corp. continues its commitment to meeting the diverse needs of its customers by utilizing our state of the art technology to offer another solution based product for the mold making industry.

Duramax-10™ Aluminum Mold Plate is a Forged and Heat Treated aluminum plate product designed to offer mold builders a higher strength and higher hardness aluminum mold plate in the larger thickness range of 10"-16". Designed to provide higher strength at elevated temperatures and premium weld repair characteristics, **Duramax-10** is destined to be the product of choice in many production mold applications

DURAMAX-10™ ALUMINUM MOLD PLATE ADVANTAGES:

- Lower Weight (Approximately three times lighter when compared to steel products)
- Increased Mechanical Properties and Brinell Hardness
- Excellent Machinability in High Speed Cutting Environments
- Maintains Higher Strength at Elevated Temperatures- When compared to 7XXX Alloys
- Excellent Thermal Conductivity (Approximately three times that of steel products)
- Premium Welding Characteristics – Improved Color Match Over 7XXX Series Alloys
- Available in Thicker Gauges from 10" – 16"
- Accepts Popular Surface Treatments and Anodized Coatings
- Suitable for Many Polished Surface and Textured Applications
- Premium EDM Characteristics and Electrical Conductivity Properties
- Ultrasonically Inspected to ASTM B594 CL A

Duramax-10™ Applications:

Plastic, Composite & Rubber Molds Ranging From Prototype to Production. Includes Injection Molds, Blow Molds, Rubber & Tire Molds, Structural Foam Molds, Thermoforming Molds, RIM Molds, RTM Molds, Compression Molds, Composite Tooling and Molds, Aerospace Composite Tooling, Robotic and Machinery Components.

Welding Guidelines Available Upon Request

In business since 1968, Vista Metals proudly produces **all our products in the U.S.A.**

SPECIFICATIONS AND PROPERTIES ON BACKSIDE 

FOR MORE INFORMATION CONTACT US AT: WWW.VISTAMETALS.COM • 909-823-4278



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DURAMAX-10™ PROPERTIES (TYPICAL):

Typical Tensile Strength:	55 – 60 ksi
Typical Yield Strength:	43 – 47 ksi
Elongation in 2"	3.3% – 10.3% (Grain Direction Dependent)
Typical Hardness Brinell:	120 – 140
Typical Hardness Rockwell A	49 – 52 (Estimated Conversion from Brinell)
Typical Hardness Rockwell B	80 – 84 (Estimated Conversion from Brinell)
Typical Hardness Vickers	149 – 170 (Estimated Conversion from Brinell)
Density	.103 lb/in ³
Thermal Conductivity	75 Btu/ft hr °F
Electrical Conductivity	30% IACS
Modulus of Elasticity	10.6 x 10 ⁶ psi
CTE 68-212 °F	12.4 x 10 ⁻⁶
CTE 213-392 °F	13.4 x 10 ⁻⁶

DURAMAX-10™ SPECIFICATIONS (TYPICAL):

Surface Condition from Vista Metals:	Smooth as Forged Surfaces or Saw Cut Edges
Surface Condition from Vista Distributors:	Smooth as Forged Surfaces or Saw Cut Edges
Tolerances:	Thickness +.250" /-.000" Width & Length: +.250" /-.000"
Sizes:	Sizes: Thickness 10"-16" Width: Up to 48" Length: (Depends on Thick. x Width Combination)

Custom Sizes Available On Inquiry

Authorized Distributor of Plate Products



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
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VISTA METALS CORP.

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