

DURAMOLD-2™ & DURAMOLD-5™



VISTA METALS

Cast Aluminum Mold Plate

Vista Metals is committed to meeting the diverse needs of its customers by providing **DURAMOLD-2** and **DURAMOLD-5** aluminum mold plate products. Designed and tailored to meet a wide range of mold making applications, these products offer outstanding machinability, excellent weldability, superior and consistent performance at elevated temperatures, and unsurpassed dimensional stability.

Utilizing state-of-the-art equipment and processing systems, Vista Metals provides a unique range of products, dimensions, surface conditions, along with the highest quality products available and the best service possible.

DURAMOLD-2™

- Excellent Machinability
- Dimensional Stability
- High Brinell Hardness
- Excellent Weldability
- High Strength
- Ultrasonically Inspected
- Gauge 2" - 38"

DURAMOLD-5™

- Excellent Machinability
- Dimensional Stability
- Excellent Weldability
- High Strength to Weight Ratio
- Enhanced Corrosion Resistance
- Ultrasonically Inspected
- Gauge 2" - 38"

DURAMOLD-2™ AND DURAMOLD-5™

- Supplying the mold maker the most complete product line for an expanding range of applications
- Welding guidelines available on request



S P E C I F I C A T I O N S

DURAMOLD - 2 2xxx Series	DURAMOLD - 5 5xxx Series
Surface Condition & Roughness: Machined 2 Sides (25 RMS) Sawed Surface (+.125"/-0)	Surface Condition & Roughness: Machined 2 Sides (25 RMS) Sawed Surface (+.125"/-0)
Gauges: 2" to 38" Tolerance: (+.125"/-0)	Gauges: 2" to 38" Tolerance: (+.125"/-0)
Widths: Up to 94" Tolerance: (+.250"/-0)	Widths: Up to 94" Tolerance: (+.250"/-0)
Lengths:* Up to 170" long (gauges 2" - 30") Up to 100.0" long (gauges 31" to 38") <small>*Longer lengths available on inquiry</small>	Lengths:* Up to 170" long (gauges 2" - 30") Up to 100.0" long (gauges 31" to 38") <small>*Longer lengths available on inquiry</small>
Tolerance: (+.250"/-0)	Tolerance: (+.250"/-0)
Edges: Saw Cut	Edges: Saw Cut

P R O P E R T I E S (T Y P I C A L)

Tensile Strength: 38 ksi Yield Strength: 20 ksi Elongation in 2": 7-9% Hardness: 81HB Density: .101 lb/in ³ Thermal Conductivity: 164W/mK 95 Btu/ft x h x °F	Tensile Strength: 41 ksi Yield Strength: 18 ksi Elongation in 2": 12-15% Hardness: 70HB Density: .096 lb/in ³ Thermal Conductivity: 140 W/mK 81 Btu/ft x h x °F
Electrical Conductivity: 39% IACS Modulus of Elasticity: 10.7 x 10 ⁶ psi 74,000 MPa	Electrical Conductivity: 29% IACS Modulus of Elasticity: 10.1 x 10 ⁶ psi 70,000 MPa
Coefficient of Thermal expansion: 68-212 °F 12.4 x 10 ⁻⁶ 213-392 °F 12.9 x 10 ⁻⁶	Coefficient of Thermal expansion: 68-212 °F 13.1x 10 ⁻⁶ 213-392 °F 13.4 x 10 ⁻⁶

APPLICATIONS

Molds for the automotive industry, blow molds, structural foam molds, rubber molds, low pressure injection molds, Thermoforming molds, R.I.M. and R.T.M. molding.

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