

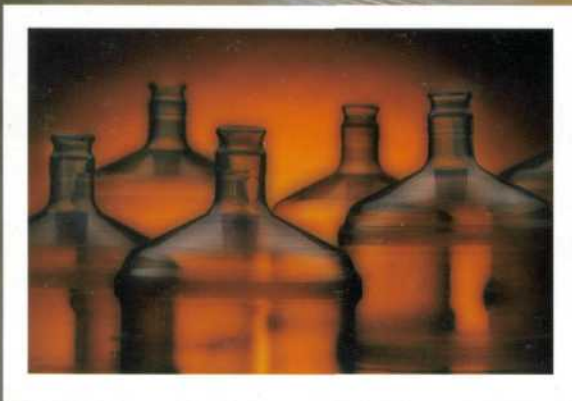
DURAMOLD-2™ & DURAMOLD-5™ Cast Aluminum Mold Plate

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
- >2" to 30" thick



DURAMOLD-5™

- Excellent Machinability
- Dimensional Stability
- High Strength to Weight Ratio
- Improved Scrap Recovery
- Enhanced Corrosion Resistance
- Ultrasonically Inspected
- >4" to 23" thick

2618 alloy
Duramold-2™ and Duramold-5™

- Supplying the mold maker a complete product line for an expanding range of applications
- Ultrasonic Inspection meets aerospace specification MIL SPEC 2154-A
- Welding guidelines available on request

DURAMOLD-2™ & DURAMOLD-5™

Cast Aluminum Mold Plate

Specifications

DURAMOLD-2 2xxx Series

Surface Condition & Roughness:
Machined 2 Sides (25 RMS)
Sawed Surface (+.125"/-0)

Gauges: >2.00" to 30.00"
Tolerance: (+.125"/-0)

Widths: Up to 65" (>2" -30")
Up to 73" (>2" -21")
Tolerance: (+.250"/-0)

Lengths: Up to 170" long
Tolerance: (+.250"/-0)

Edges: Saw Cut

DURAMOLD-5 5xxx Series

Surface Condition & Roughness:
Machined 2 Sides (25 RMS)
Sawed Surface (+.125"/-0)

Gauges: >4.00" to 23.00"
Tolerance: (+.125"/-0)

Widths: Up to 65" (>4" -23")
Up to 73" (>4" -21")
Tolerance: (+.250"/-0)

Lengths: Up to 170" long
Tolerance: (+.250"/-0)

Edges: Saw Cut

Tensile Strength: 38 ksi
Yield Strength: 20 ksi
Elongation in 2": 7%
Hardness: 81HB
Density: .100 lb/in³
Thermal
Conductivity: 164W/mK
82 - 95 Btu/ft x h x °F
Electrical
Conductivity: 37% IACS
Modulus of Elasticity: 10.7 x 10⁶ psi
74,000 MPa
Coefficient of
Thermal expansion: 68 - 212 °F 12.4 x 10⁻⁶
68 - 392 °F 12.9 x 10⁻⁶

Tensile Strength: 41 ksi
Yield Strength: 18 ksi
Elongation in 2": 15%
Hardness: 70HB
Density: .096 lb/in³
Thermal
Conductivity: 110-140 W/mK
63 - 81 Btu/ft x h x °F
Electrical
Conductivity: 35% IACS
Modulus of Elasticity: 10.1 x 10⁶ psi
70,000 MPa
Coefficient of
Thermal expansion: 68 - 212 °F 13.1 x 10⁻⁶
68 - 392 °F 13.4 x 10⁻⁶

Properties (typical)

Applications

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

Typical Chemistry

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn
5xxx	0.10	0.25	0.05	0.50	4.5	0.01	0.01	0.20
2xxx	0.10	1.00	2.30	0.05	1.5	0.01	1.00	0.05

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