

ATP-5TM **ALUMINUM TOOLING PLATE** PRECISION MACHINED

Highest caliber. So is the metal.

Vista Metals Corp. is committed to meeting the diverse needs of its customers by providing our complete line of Aluminum Plate products. With state-of-the-art technology, equipment and processing systems, Vista Metals Corp. has engineered ATP-5™ Aluminum Tooling Plate to meet a diverse range of manufacturing applications. With its consistent mechanical properties and dimensional stability characteristics, ATP-5™ has become the product of choice for those applications where stringent flatness tolerances and dimensional control are critical. Produced with an aluminum-magnesium alloy, ATP-5™ has outstanding machinability and responds very well in today's high speed cutting environments. This unique combination of performance characteristics reduces machining time, improves efficiencies and has made ATP-5™ the specified choice of companies around the world.

ATP-5™ ALUMINUM TOOLING PLATE ADVANTAGES:

- Vista Metals V-Class Quality Assurance
- **Precision Machined Surfaces**
- Fully Homogenized & Stress Relieved
- Dimensionally Stable During Machining
- Vacuum & Pressure Integrity Guaranteed
- 15-20 RMS Finish Both Sides
- AA 5083 Aluminum Alloy
- Accepts Anodized, Nickel & Other Coatings

- Higher Strength & Elongation¹
- Superior Corrosion Resistance²
- High Strength to Weight Ratio³
- **Excellent Welding Characteristics**
- 100% Inspection of Each Plate
- Poly Film Protected Both Sides
- **Equiaxial Fine Grain Structure**
- Imperial & Metric Sizes Available
- 1. When compared to 7000 series aluminum alloy cast tooling plate products
- Passes ASTM-B117 Standard Salt Spray (Fog) Corrosion Test
- 3. Density offers a 5% weight savings over 7000 series cast aluminum tooling plate products

ATP-5TM APPLICATIONS:

Automotive & Aerospace Fixtures, Computer & Electronics Components, Robotic Components, Plastic Molds including Injection & Blow Molds, Inspection Tools, Medical Testing Equipment, Semiconductor & Solar Manufacturing Components, Printing Machinery, Foundry Patterns, Packaging Machinery, Thermoforming Tools, Index Tables, Assembly & Machining Jigs & Fixtures, Vacuum Tables, Templates, Medical & Pharmaceutical Equipment, Router Tables, Mold Cooling & Heating Platens, Food Processing Machinery, Sorting Equipment. Product designers worldwide are discovering new applications continuously.

Welding Guidelines Available Upon Request

SPECIFICATIONS AND PROPERTIES ON BACKSIDE





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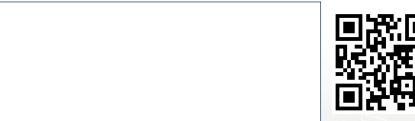
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ATP-5™ PROPERTIES (TYPICAL):

	ATP-5™ IMPERIAL	ATP-5™ METRIC
Tensile Strength:	41ksi	283 MPa
Yield Strength:	18ksi	124 MPa
Elongation in 2"/50.8mm:	12-15%	12-15%
Hardness:	70HB	70HB
Density:	.096 lb/in ³	2660 kg/m ³
Thermal Conductivity:	81 Btu/ft x h x °F	140 W/mK
Electrical Conductivity:	29% IACS	29% IACS
Modulus of Elasticity:	10.1 x 10 ⁻⁶ psi	70,000 MPa
Coefficient of		20-100 °C 23.6 x 10 ⁻⁶ m/m °C
		101-200 °C 24.2 x 10 ⁻⁶ m/m °C

Contact us for information about your specifications and requirements

Authorized Distributor of Plate Products



ATP-5™ SPECIFICATIONS:

	ATP-5™ IMPERIAL	ATP-5™ METRIC
Surface Condition:	Precision Machined 2 sides*	Precision Machined 2 sides*
Surface Roughness:	20 RMS max.	20 RMS max.
Guaranteed Flatness: (Before & after sawing)	>0.500" = .005" or better =0.500" = .015" or better</th <th>>12.7mm = 0.127mm <!--=12.7mm = 0.381mm</th--></th>	>12.7mm = 0.127mm =12.7mm = 0.381mm</th
Gauges:	1/4" to 4.00"	6.35mm to 101.6mm
Gauge Tolerance:	+/005″	+/- 0.127mm
Widths:	48.5″, 60.5″, 72.5″	1232mm, 1537mm, 1842mm
Width Tolerance:	+.250″/-0	+6.35mm/-0
Lengths:	Up to 144.5" long	Up to 3670mm
Length Tolerance:	+.250″/-0	+.6.35mm/-0
Edges:	Saw Cut	Saw Cut

Custom Sizes Available On Inquiry

* Poly Film Protected Both Sides To Protect Machined Surfaces





For assistance in choosing the product that will best fit your application, please contact our technical specialist listed below:

DIRECTOR OF SALES - PLATE PRODUCTS

Dwayne Gordon (Technical Specialist) Office: 517.543.6100 Cell: 517.897.4945 Email: dwayne@vistametals.com

PLATE PRODUCTS CONTACT INFO: Plate Sales Email:castplate@vistametals.com

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