



# ATP-5™

## 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
- Modified 5083 Aluminum Alloy
- Accepts Anodized, Nickel & Other Coatings
- Higher Strength & Elongation<sup>1</sup>
- Superior Corrosion Resistance<sup>2</sup>
- High Strength to Weight Ratio<sup>3</sup>
- 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
2. 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-5™ 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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### 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 <sup>3</sup>	2660 kg/m <sup>3</sup>
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 <sup>6</sup> psi	70,000 MPa
Coefficient of Thermal Expansion:	68-212 °F 13.1 x 10 <sup>-6</sup> 213-392 °F 13.4 x 10 <sup>-6</sup>	20-100 °C 23.6 x 10 <sup>-6</sup> m/m °C 101-200 °C 24.2 x 10 <sup>-6</sup> 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	>12.7mm = 0.127mm </=12.7mm = 0.381mm
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 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)  
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#### PLATE PRODUCTS CONTACT INFO:

Plate Sales Email: Castplate@Vistametals.com  
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#### INSIDE SALES REPRESENTATIVE - PLATE PRODUCTS

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### VISTA METALS CORP.

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