

ATP-5™



Precision Cast Aluminum Plate

By utilizing state-of-the-art technology, equipment and processing systems, Vista Metals offers a unique cast aluminum tooling plate that is specified for a wide and diverse range of manufacturing applications. Due to its versatility, and consistent mechanical and dimensional characteristics, **ATP-5** is the product of choice for those applications where flatness and dimensional control are critical. This product has outstanding machinability, excellent high speed cutting rates, and exceptional feed rates, all of which contribute to reducing machining time and improving efficiencies. **ATP-5** offers improved performance characteristics when compared to standard cast tooling plate, including stringent flatness tolerances that are unsurpassed in the industry.

ATP-5™

- Superior Anodizing and Hardening Response
- Higher Strength & Elongation
- Excellent Weldability
- Improved Corrosion Resistance
- High Strength to Weight Ratio
- Dimensional Stability

ATP-5™

- Providing design engineers a precision product for demanding and critical applications.
- Material supplied PVC two sides.
- 100% inspection of each plate for flatness and thickness accuracy.

VISTA METALS



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

ATP - 5

5xxx Series

Surface Condition: Surface Roughness:	Precision Machined 2 sides 20 RMS max.
Guaranteed Flatness: (Before & after sawing)	>0.500" = .005" or better </=0.500" = .015" or better
Gauges: Tolerance:	1/4" to 4.00" +/- .005"
Widths: Tolerance:	48.5", 60.5", 72.5" +.250"/-0
Lengths: Tolerance:	Up to 144.5" long +.250"/-0
Edges:	Saw Cut Custom sizes available on inquiry

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

Tensile Strength:	41ksi
Yield Strength:	18ksi
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:	29% IACS
Modulus of Elasticity:	10.1 x 10 ⁶ psi 70,000 MPa
Coefficient of Thermal expansion:	68-212 °F 13.1 x 10 ⁻⁶ 213-392 °F 13.4 x 10 ⁻⁶

APPLICATIONS

Computer & electronics, pharmaceuticals, medical testing equipment, packaging machinery, printing machinery, thermoforming tools, machining fixtures, drill jigs, index tables, mold cooling & heating plates, templates, vacuum chucks, food machinery molding plate, automotive and base plates.

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