

ATP-5™



Precision Cast Aluminium Plate

By utilising state-of-the-art technology, equipment and processing systems, Vista Metals offers a unique cast aluminium 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

A T P - 5

5xxx Series

| Surface Condition: | Precision Machined 2 sides | |
|---|--|---------------------------------|
| Surface Roughness: | 20 RMS max. | |
| Guaranteed Flatness: (Before & after sawing) | >12.7 mm = 0.127 mm or better | </=12.7 mm = 0.381 mm or better |
| Gauges: | 6.35 mm to 101.6 mm | |
| Tolerance: | +/- 0.127 mm | |
| Widths: | 1232 mm, 1537 mm, 1842 mm | |
| Tolerance: | +6.35/-0 mm | |
| Lengths: | Up to 3670 mm | |
| Tolerance: | +6.35/-0 mm | |
| 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: | 283 MPa | |
| Yield Strength: | 124 MPa | |
| Elongation in 50.8 mm: | 15% | |
| Hardness: | 70 HB | |
| Density: | 2660 kg/m ³ | |
| Thermal Conductivity: | 140 W/mK | |
| Electrical Conductivity: | 29% IACS | |
| Modulus of Elasticity: | 70,000 MPa | |
| Coefficient of Thermal expansion: | 20-100°C | 33.3 x 10 ⁻⁵ |
| | 101-200°C | 34.0 x 10 ⁻⁵ |

APPLICATIONS

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

For more information, contact:

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Calm Aluminium

There is only one way... The Calm Way!