Alpase, an industry innovator, has taken K100-S to new horizons.

K100-S is the only dimensionally stable aluminum plate with vacuum integrity combined with improved mechanical properties, excellent corrosion resistance and Micro-Sheen finish.

Produced in the USA

### K100-S Product Features and Benefits

- Dimensional stability
- Elongation - 12% - 15%
- Very consistent hardness and mechanical properties throughout its entire thickness range, regardless of size
- Close flatness and thickness tolerances
- Excellent weldability
- Superior corrosion resistance: passed ASTH B117 Standard Test Method of Salt Spray (fog) testing
- Micro-Sheen finish offers the finest surface of any aluminum plate produced...(18 - 19 RMS), meets almost all finished product applications
- Superior anodizability, including hard-coat anodizing
- Low density offers a 5% weight savings over other cast products
- Can be nickel plated
K100-S APPLICATIONS

Because K100-S is “The Perfect Aluminum Plate” it has a wide range of manufacturing applications:

- K100-S can be painted on both sides, including finishes requiring heat-curing
- K100-S can be used for mold cooling and heating plates without impregnation
- K100-S can be used for low pressure molds for shoes, skis and many other products
- K100-S is “The Perfect Plate” for composite tooling requiring vacuum integrity and dimensional stability

STANDARD SIZES TOLERANCES

<table>
<thead>
<tr>
<th>Standard</th>
<th>Sizes</th>
<th>Tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>.250 to 8.00 inches</td>
<td>+ .005 -.005&quot;</td>
</tr>
<tr>
<td></td>
<td>6.35 mm to 203 mm</td>
<td>+.127 mm -.127 mm</td>
</tr>
<tr>
<td>Width</td>
<td>38.25 inches</td>
<td>48.5 inches</td>
</tr>
<tr>
<td></td>
<td>972 mm</td>
<td>1232 mm</td>
</tr>
<tr>
<td></td>
<td>60.5 inches</td>
<td>+ .250° - 0°</td>
</tr>
<tr>
<td></td>
<td>1537 mm</td>
<td>+ 6.35 mm - 0 mm</td>
</tr>
<tr>
<td>Length</td>
<td>96.5 and 144.5 inches</td>
<td>2451 mm and 3670 mm</td>
</tr>
<tr>
<td>Guaranteed Flatness</td>
<td>.250 - .500 inches within .015&quot; - .381 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>.625 - 8.00 inches</td>
<td>within .010&quot; - .254 mm</td>
</tr>
<tr>
<td>Custom:</td>
<td>Widths possible up to 88 inches (Please inquire)</td>
<td></td>
</tr>
</tbody>
</table>

K100-S TYPICAL PROPERTIES

- Typical Tensile Strength: 41 ksi
- Typical Yield: 18 ksi
- Typical Elongation: 12% to 15%
- Brinell Hardness: 70 HB
- Density: 0.096 lb./in³
- Coefficient of Expansion: 13.2 x 10⁻⁶ (68° - 212°F)
- Electrical Conductivity: 29% (I.A.C.S.)
- Microstructure: Vacuum Tight
- Thermal Conductivity: 81 Btu/ft x h x °F
- Modulus of Elasticity: 10.3 KSI x 10³