

# ALPASE K100-S™

## MICRO-SHEEN FINISH ALUMINUM PLATE

New Technologies  
In Aluminum

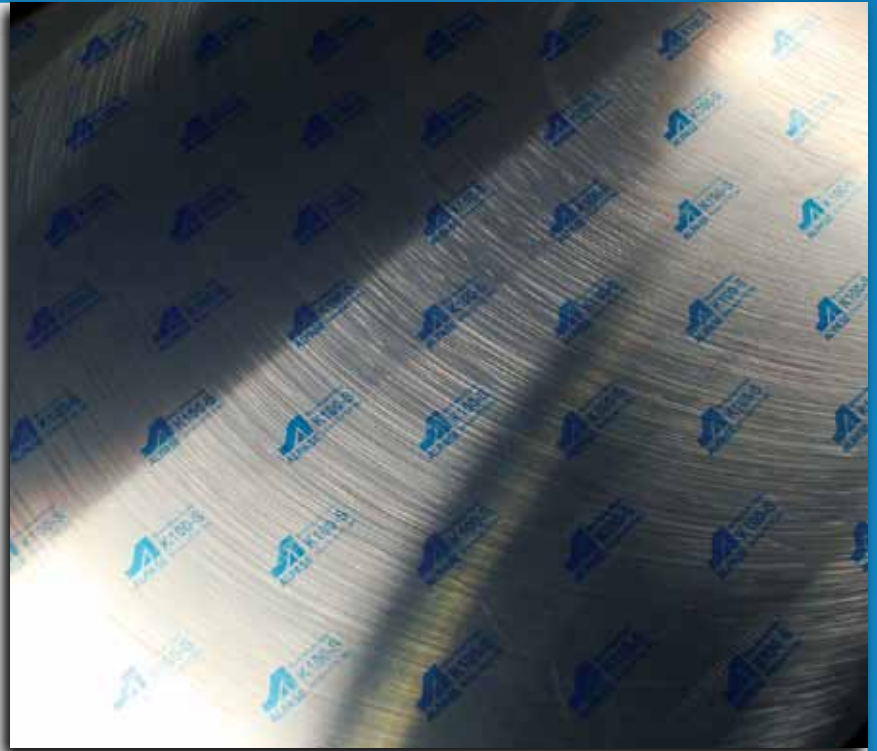


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**Alpase, an industry innovator, has taken K100-S to new horizons.**

**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

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## MICRO-SHEEN FINISH ALUMINUM PLATE

### 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
Thickness	.250 to 8.00 inches 6.35 mm to 203 mm	+ .005 - .005" +.127 mm - .127 mm
Width	38.25 inches    48.5 inches 972 mm            1232 mm	+ .250" - 0" + 6.35 mm - 0 mm
	60.5 inches 1537 mm	
Length	96.5 and 144.5 inches 2451 mm and 3670 mm	
Guaranteed Flatness (Before and After Machining)	.250 - .500 inches .625 - 8.00 inches	within .015" - .381 mm within .010" - .254 mm
Custom:	Widths possible up to 88 inches (Please inquire)	

### K100-S TYPICAL PROPERTIES

Typical Tensile Strength	41 ksi	Coefficient of Expansion	13.2 x 10 <sup>-6</sup> (68" - 212°F)
Typical Yield	18 ksi	Electrical Conductivity	29% (I.A.C.S.)
Typical Elongation	12% to 15%	Microstructure	Vacuum Tight
Brinell Hardness	70 HB	Thermal Conductivity	81 Btu/ft x h x °F
Density	0.096 lb./in <sup>3</sup>	Modulus of Elasticity	10.3 KSI x 10 <sup>3</sup>

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