



ALPASE K100-S™

THE PERFECT ALUMINUM PLATE

Alpase, an industry innovator, scores again. Our scientist and engineers have taken K100-S to new horizons. K100-S is the only dimensionally stable aluminum plate with vacuum integrity combined with improved mechanical properties and excellent corrosion resistance.

K100-S PRODUCT FEATURES AND BENEFITS

- Dimensional stability
- Elongation – a remarkable 10% to 12%
- Identical, consistent hardness throughout its entire thickness range, regardless of size
- Identical, consistent mechanical properties throughout its entire thickness range, regardless of size
- The closest flatness and thickness tolerances
- Fully weldable
- Superior corrosion resistance – passed ASTM B117 *Standard Test Method of Salt Spray (fog) Testing*
- Superior anodizability, including hard-coat anodizing
- Can be nickel plated
- Surface finish is the finest and smoothest of any aluminum plate produced...an 18 – 19 RMS, perfect for almost all finished product applications

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 a heat-curing process

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	+ .005" – .005"
	6.35 mm to 203 mm	+ .127 mm – .127 mm
Width	38.25 inches	
	972 mm	
	48.5 inches	+ .125 – 0"
	1232 mm	+3.175 mm – 0 mm
	60.5 inches	+ .125 – 0"
	1537 mm	+3.175 mm – 0 mm
Length	96.5 and 144.5 inches	+ .125 – 0"
	2451 mm and 3670 mm	+3.175 mm – 0 mm
Flatness	.250 – .500 inches	within .015" – .381 mm
	.625 – 8.00 inches	within .010" – .254 mm

K100-S TYPICAL PROPERTIES

Typical Tensile Strength	38,000 psi	Coefficient of Expansion	13.2 x 10 ⁻⁶ (68°-212°F)
Typical Yield	18,000 psi	Electrical Conductivity	29 (IACS%)
Typical Elongation	10% to 12%	Thermal Conductivity	810 English Units (77°F)
Brinell Hardness	60 to 65	Modulus of Elasticity	10.3 KSI x 10 ³
Density	0.101 lb./in ³		

AUTHORIZED ALPASE DISTRIBUTOR

*New Technologies
In Aluminum*



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