

ALPASE K100-S™

MICRO-SHEEN FINISH ALUMINUM PLATE

New Technologies
In Aluminum

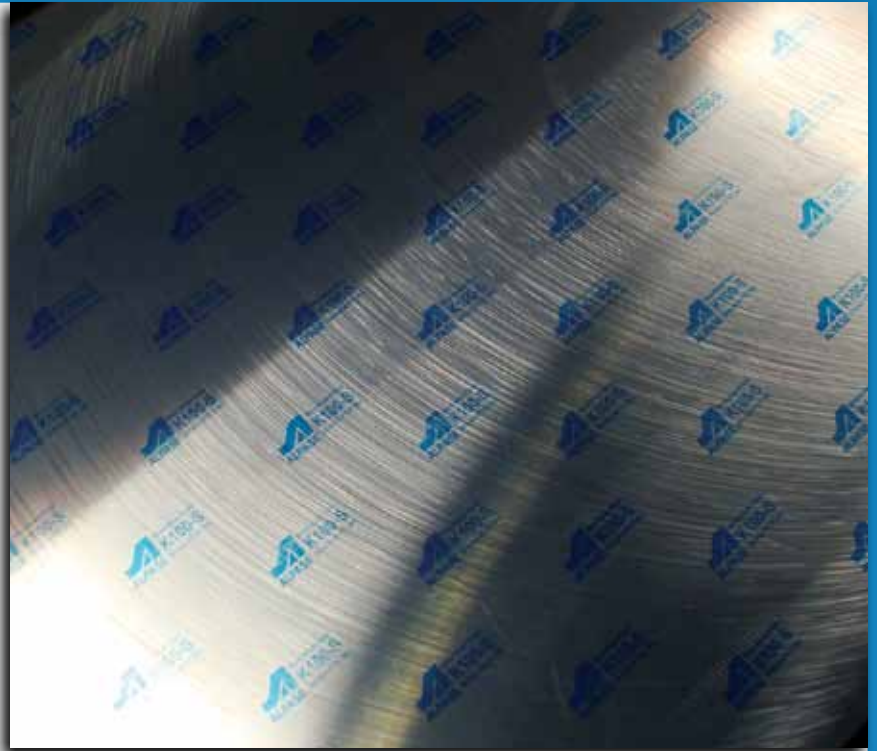


TST, Inc.
11601 Etiwanda Avenue
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www.alpase.com

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

ALPASE K100-S

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 ⁻⁶ (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 ³	Modulus of Elasticity	10.3 KSI x 10 ³

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AUTHORIZED ALPASE DISTRIBUTOR

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**ALPASE, INC.
 PRODUCT CERTIFICATION**

Sample Form

Customer :

P.O. No.

Alpase W.O. No.

Alloy Alpase K100-S™ Aluminum Cast Plate

**Country of Origin,
 Melt & Mfg:** USA

Form Standard Plate Sizes: Thickness .25" - 6"
 Width 38 1/4", 48 1/2", 60 1/2", 74"
 Length 96 1/2", 120 1/2", and 144 1/2"

Condition Stress Relieved

Mechanical Properties (Typical)

Ultimate Strength	Yield Strength	Elongation Percent in 1"
38,000	18,000	12.0

Hardness
 Brinell 60 - 65

Chemical Composition

Zn	-	.0	-	.25
Cu	-	.10	-	.20
Mg	-	4.0	-	4.9
Si	-	.0	-	.40
Mn	-	.4	-	1.0
Fe	-	.1	-	.4
Al	-	Remainder		

Sample Form
 ALPASE, INC. Date