ALPASE K100-S™

MICRO-SHEEN FINISH ALUMINUM PLATE

New Technologies In Aluminum

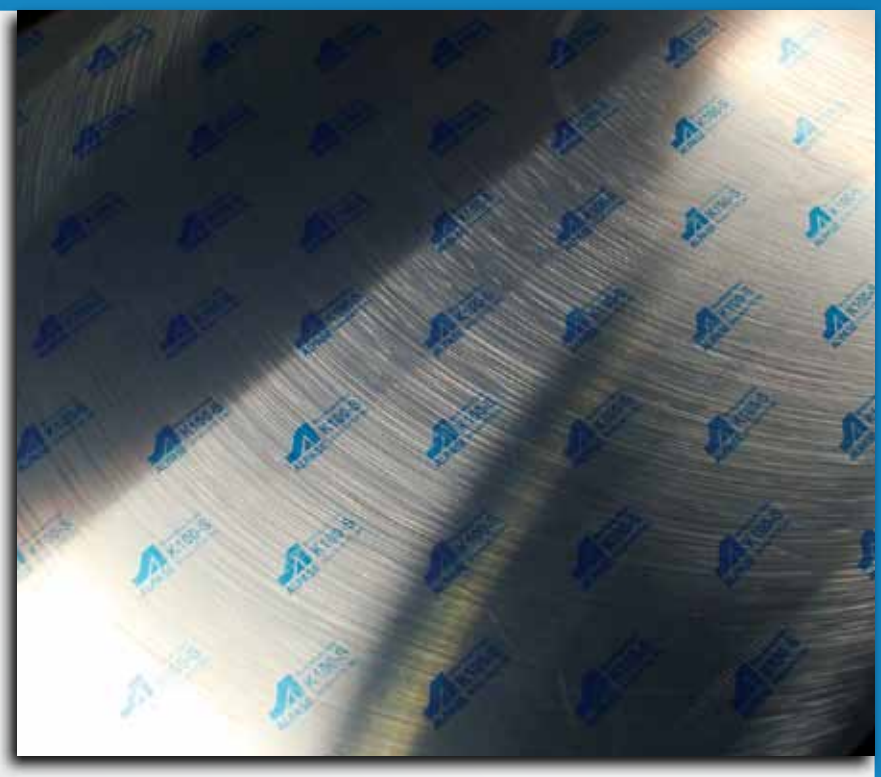
ALPASE

TST, Inc.
11601 Etiwanda Avenue
Fontana, CA 92337 USA
Telephone: 951.685.2155
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 anodiziability, 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 60.5 inches 1537 mm	+ .250" - 0" + 6.35 mm - 0 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	13.2×10^{-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

New Technologies In Aluminum

ALPASE

TST, Inc.
11601 Etiwanda Avenue
Fontana, CA 92337 USA
Telephone:
951.685.2155
www.alpase.com

David Wirth
Sales Manager North America
cell: 262.490.5038
dwirth@tst-inc.com

Bill Tang
Inside Sales Manager
Direct: 951.727.3171
Cell: 626.232.8229
btang@tst-inc.com

AUTHORIZED ALPASE DISTRIBUTOR

Alpase K100-S is a Registered Trademark of TST, Inc. © Copyright 1998, Alpase, Inc.