

Alumina Type SALI-2

Characteristics & Properties Continued

Thermal Conductivity,** ASTM C177-76 W/m K (BTU/hr ft ² °F/in)	
400°C (752°F)	0.25 (1.7)
600°C (1112°F)	0.27 (1.9)
800°C (1472°F)	0.31 (2.2)
1200°C (2192°F)	0.38 (2.6)
1400°C (2552°F)	0.43 (3.0)
1650°C (3002°F)	0.48 (3.3)

The data presented herein is intended to help the user to determine the appropriateness of this material for their application. This data is a nominal representation of this product's properties and characteristics and therefore should not be used in preparing specifications.

* Maximum use temperature is dependent on variables such as stresses, both thermal and mechanical, and the chemical environment that the material experiences. ** Properties expressed parallel to thickness. ‡ Properties expressed perpendicular to thickness. ^a CTE per ASTM C-372, 0.5 psi load on 1/2" square sample, 3°C/min. heating / cooling rate, air atmosphere. ^a Temperature sample yields under load of push rod in CTE determination

Suggested Applications

Primary thermal insulation in low-mass furnaces and thermal process systems operating to 1820°C (3308°F).

Backup thermal insulation in furnaces and thermal process systems operating to temperatures exceeding 2000°C (3632°F).

High-temperature setters, supports and process fixtures.

Electrical insulation in high-temperature systems operating to 1800°C (3272°F).

Availability of Standard Boards

ITEM #	DESCRIPTION
A18105	SALI-2, 12"W x 18"L x 1.00"T
A18106	SALI-2, 12"W x 18"L x 1.50"T
A18107	SALI-2, 12"W x 18"L x 2.00"T

To Order

Standard boards: order online or specify quantity, item # and description.

Standard boards are available for immediate shipment from stock.

Standard tolerances for boards are +/- 1/8" on length and width and +/- 1/16" on thickness.

Custom boards as large as 16"W x 22"L x 2.5"T have been manufactured.

Custom shapes: our state-of-the-art tight-tolerance machining techniques allow a wide variety of sizes and shapes to be made.

Cylinders can be manufactured with IDs from 1" to 10" with 1/2" to 2" wall thickness and length up to 12"

Surface treatments including rigidization with colloidal alumina (AL-R/H) or colloidal silica (SI-RIG) or coating with alumina cement (AL-CEM) are all available.



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