

# GEMINITE VACUUM CAST BOARDS & SHAPES

## 2600 – SERIES

### PHYSICAL PROPERTIES

COLOUR	WHITE
NOMINAL DENSITY	15 pcf
MAX TEMP RATING	2600°F
CONTINUOUS USE LIMIT	2600°F
MELTING POINT	3200°F
MODULUS OF RUPTURE	110 psi
COMPRESSIVE STRENGTH	
@ 5% DEFORMATION	30 psi
@10% DEFORMATION	40 psi
LINEAR SHRINKAGE	
24HRS @ 1500°F	0.3%
24HRS @ 1800°F	0.3%
24HRS @ 2000°F	0.6%
24HRS @ 2200°F	0.7%
24HRS @ 2400°F	0.8%
24HRS @ 2500°F	1.0%
24HRS @ 2600°F	1.4%

### CHEMICAL ANALYSIS

SILICA, SiO <sub>2</sub>	49
ALUMINA, Al <sub>2</sub> O <sub>3</sub>	51
ZIRCONIA, ZrO <sub>2</sub>	---
OTHER	<1
LOSS OF IGNITION	7-9
ORGANIC MATERIAL	6-8

### THERMAL CONDUCTIVITY ASTM 201

(BTU-IN/HRS-FT<sup>2</sup>-°F)

MEAN TEMPERATURE	
@ 500°F	0.45
@ 1000°F	0.67
@ 1500°F	1.01
@ 2000°F	1.49

**NOTE:** DURING THE INITIAL HEAT-UP OF CERAMIC BOARDS AND SHAPES, A SMALL AMOUNT OF ORGANIC BINDER WILL START TO BURN OUT AT APPROXIMATELY 450°F (232°C). ONCE THIS MATERIAL HAS BURNED OFF, THERE WILL BE NO FURTHER 'OFF GASSING'. CAUTION SHOULD BE EXERCISED DURING THIS PERIOD.