

# GEMINITE VACUUM CAST BOARDS & SHAPES

## NS – L-SERIES

### PHYSICAL PROPERTIES

|                      |             |
|----------------------|-------------|
| COLOUR               | BEIGE       |
| NOMINAL DENSITY      | 17 pcf      |
| MAX TEMP RATING      | 2300°F      |
| CONTINUOUS USE LIMIT | 2000°F      |
| MELTING POINT        | 3200°F      |
| MODULUS OF RUPTURE   | 100-130 psi |
| COMPRESSIVE STRENGTH |             |
| @ 5% DEFORMATION     | 20-30 psi   |
| @ 10% DEFORMATION    | 25-40 psi   |
| LINEAR SHRINKAGE     |             |
| 24HRS @ 1500°F       | 1.2%        |
| 24HRS @ 1800°F       | 2.2%        |
| 24HRS @ 2000°F       | 2.8%        |
| 24HRS @ 2200°F       | -----       |
| 24HRS @ 2400°F       | -----       |

### CHEMICAL ANALYSIS

|   |     |
|---|-----|
| SILICA, SiO <sub>2</sub>                | 56  |
| ALUMINA, Al <sub>2</sub> O <sub>3</sub> | 42  |
| CALCIUM OXIDE CaO                       | --- |
| OTHER                                   | 2   |
| LOSS OF IGNITION                        | 4-7 |
| ORGANIC MATERIAL                        | 3-6 |

### THERMAL CONDUCTIVITY ASTM 201

(BTU-IN/HRS-FT<sup>2</sup>-°F)

|                  |      |
|------------------|------|
| MEAN TEMPERATURE |      |
| @ 500°F          | 0.47 |
| @ 1000°F         | 0.71 |
| @ 1500°F         | 1.04 |
| @ 2000°F         | 1.52 |

**NOTE:** THE ABOVE PRODUCT DURING MANUFACTURE GOES THROUGH AN ELEVATED DRYOUT FOLLOWED BY A COLLOIDAL SILICA POST-TREATMENT. THIS RESULTS IN AN INERT (SMOKE-FREE) PRODUCT.