



GEMINITE VACUUM CAST BOARDS & SHAPES

AZS – SERIES

Bulk 8000 is made from high purity alumina, zirconia and raw silica material, enabling the material to withstand continuous operating temps of up to 2450F (1345C).

PHYSICAL PROPERTIES

| | |
|---|-----------|
| COLOUR | WHITE |
| NOMINAL DENSITY | 14-18 pcf |
| MAX TEMP RATING | 2600°F |
| CONTINUOUS USE LIMIT | 2450°F |
| MELTING POINT | 3200°F |
| MODULUS OF RUPTURE | 110 psi |
| COMPRESSIVE STRENGTH @ 15% DEFORMATION | 36 psi |
| LINEAR SHRINKAGE 24HRS @ 2450°F | 1.5% |

CHEMICAL ANALYSIS

| | |
|---|-----|
| SILICA, SiO ₂ | 56% |
| ALUMINA, Al ₂ O ₃ | 28 |
| ZIRCONIUM OXIDE CaO | 15 |
| OTHER | <1 |

THERMAL CONDUCTIVITY ASTM 201 (BTU-IN/HRS-FT²-°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.