



PYROTEK Z30 REFRACTORY

REFRACTORY SHAPES FOR GLASS

Pyrotek Z30 Refractory is an alumina-zirconia-silica formulation. It has high volume stability, is resistant to alkali vapours, thermal shock, hot load, and has excellent corrosion resistance. Through control of casting technique and firing conditions, Pyrotek Z30 Refractory exhibits very high strength and low porosity. It is recommended for severe applications where long-term corrosion resistance is required in environments such as extra-white glass, colored glasses and where hotter than average gob temperatures persist. It is suitable for all glass-contact expendable refractories. Pyrotek's near-net-shape casting process ensures no machining is required, leading to high accuracy and assured consistency.



APPLICATIONS

Expendable refractory shapes

HEALTH AND SAFETY

Prior to use, refer to the product safety data sheet for proper handling and required personal protective equipment.

COMPOSITION

Material	Approximate Percentage of Weight
Al ₂ O ₃	54%
ZrO ₂	29%
SiO ₂	17%

BENEFITS

- Erosion resistance
- High strength
- Thermal shock resistance

PHYSICAL PROPERTIES

Bulk Density—g/cm ³ (lb/ft ³)	3.0 (187.28)
Coefficient of Thermal Expansion— Thermal Linear Change at 1425°C (2597°F)	4.2 x 10 ⁻⁶
Cold Modulus of Rupture—MPa (psi)	17 (2465)
Hot Modulus of Rupture—MPa (psi) at 1200°C (2192°F)	15 (2176)
Creep Rate—DIN 51053 Thermal Expansion and Creep of Refractories Under Load, at 1425°C (2597°F)	0.0033%/hr
Deformation Temperature	1743°C (3169°F)
Pyrometric Cone Equivalent Value ASTM C24	33
Porosity	17%
Refractories Under Load Value DIN 51053 Part 1/ISO 1893 at 1669°C (3036°F)	0.5%

