



PYROTEK TA REFRACTORY

REFRACTORY SHAPES FOR GLASS

Pyrotek TA Refractory is a high-purity formulation based on tabular alumina. The material features high-volume stability, resistance to alkali vapours, thermal shock, hot load and good resistance to corrosion. Through controlled casting techniques and firing conditions, Pyrotek TA Refractory exhibits high strength and low porosity.

Pyrotek's TA refractory is zirconia-free and does not produce gas bubbles on initial contact with glass. It is recommended for use as plungers and orifice rings in tableware manufacture. Pyrotek TA Refractory is also ideally suited for burner blocks and spout cover blocks in general container glass manufacture.



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	96%
SiO ₂	4%

BENEFITS

- Erosion resistance
- High strength
- Thermal shock resistance

PHYSICAL PROPERTIES

Bulk Density—g/cm ³ (lb/ft ³)	3.1 (193.53)
Coefficient of Thermal Expansion—Thermal Linear Change at 1425°C (2597°F)	8.9 x 10 ⁻⁶
Cold Modulus of Rupture—MPa (psi)	45 (>6530)
Creep Rate—DIN 51053 Thermal Expansion and Creep of Refractories Under Load, at 1425°C (2597°F)	0.002%/hr
Deformation Temperature	1850°C (>3362°F)
Hot Modulus of Rupture at 850°C (1562°F)—MPa (psi)	38 (5510)
Pyrometric Cone Equivalent Value ASTM C24	>38
Porosity	16%
Refractories Under Load Value DIN 51053 Part 1/ISO 1893	>1650

