PYROTEK Z20 REFRACTORY

REFRACTORY SHAPES FOR GLASS

Pyrotek Z20 Refractory is an alumina-zirconia-silica formulation. It has high volume stability and is resistant to alkali vapours, thermal shock, hot load, and has excellent corrosion resistance. Through control of casting technique and firing conditions, Pyrotek Z20 Refractory exhibits very high strength and low porosity. It is recommended for applications where long-term corrosion resistance is required, such as orifice rings, plungers, tubes, stirrers, spouts, and rotor segments. Pyrotek's near-net-shape casting process ensures no machining is required, leading to high accuracy and assured consistency.

COMPOSITION

Material	Approximate Percentage of Weight
Al_2O_3	69%
ZrO_2	19.5%
SiO_2	11.5%

BENEFITS

- Erosion resistance
- High strength
- Thermal shock resistance

PHYSICAL PROPERTIES

Bulk Density–g/cm³ (lb/ft³)	3.0 (187.28)
Coefficient of Thermal Expansion–Thermal Linear Change at 1425°C (2597°F)	5.7×10^{-6}
Cold Modulus of Rupture–MPa (psi)	15 (2175)
Creep Rate–DIN 51053 Thermal Expansion and Creep of Refractories Under Load, at 1425°C (2597°F)	0.0006%/hr
Deformation Temperature	1850°C (3362°F)
Hot Modulus of Rupture–MPa (psi) at 1200°C (2192°F)	18 (2611)
Pyrometric Cone Equivalent Value ASTM C24	38
Porosity	17%
Refractories Under Load Value DIN 51053 Part 1/ISO 1893	>1650

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.

Note: The physical and chemical properties listed represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice.

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Product Type: 509
Commodity Code: 13009