



Epic® PB- SiC, K - Cement Kyanite & Bauxite w/silicon carbide

DESCRIPTION:

High-alumina brick made from bauxite, kyanite and high-purity clays. Excellent durability and abrasion resistance. Extreme resistance to chemical attack and ring formation. Epic phosphate bonded Epic® PB-SiC brick are designed for calcining areas with unwanted coating and the need for added wear protection and extended life. Epic® PB-K made with ultra-high purity kyanite, offers the ultimate refractoriness under load while also greatly increasing refractory strength needed in areas around the kiln nose and retainer ring sections. PB-K solves most problems associated with shifting and cracking.

USES INCLUDE:

Cement Rotary Kilns, Cyclones, Tertiary Ducts, Areas of high wear and abrasion. Kiln quench zones and cooler impact areas.

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate % - calcined basis)

| | PB-75 | PB-SiC | PB-K |
|--------------------------------|--------------|---------------|-------------|
| Al ₂ O ₃ | 75.0 | 75.0 | 80 |
| SiO ₂ | - | - | - |
| Fe ₂ O ₃ | 3.2 | - | 2.0 |
| SiC | - | 7.5 | - |

TYPICAL AS RECEIVED PROPERTIES:

| | PB-75 | PB-SiC | PB-K |
|---------------------------------------|--------------|---------------|-------------|
| Apparent Porosity, % | 22 | 18 | 18 |
| Bulk Density, g/cm ³ (pcf) | 2.35 (147) | 2.65 (165) | 2.9 (181) |
| Linear Reheat Expansion, % | - | - | - |
| Cold Crushing Strength MPa (psi) | 58.8(8500) | 60(8702) | 65(9427) |

The values reported above are average values derived from production data encompassing many different sizes and shapes. Actual data will vary to a small degree naturally, and as a function of size and shape. This form is not intended to be used for purposes of specification, it is informational only.

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