

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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