



## Epic® PB - SiC, K - Cement

### KYANITE AND BAUXITE WITH 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 bricks 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 %)

	PB-75	PB-SiC	PB-K
Al <sub>2</sub> O <sub>3</sub>	75.0%	75.0%	80.0%
SiO <sub>2</sub>	-	-	-
Fe <sub>2</sub> O <sub>3</sub>	3.2%	-	2.0%
SiC	-	7.5%	-

### TYPICAL AS RECEIVED PROPERTIES:

	PB-75	PB-SiC	PB-K
Apparent Porosity (%):	22.0	18.0	18.0
Bulk Density pcf (g/cm <sup>3</sup> ):	147 (2.35)	165 (2.65)	181 (2.9)
Cold Crushing Strength psi (MPa):	8500 (58.8)	8702 (60.0)	9427 (65.0)

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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