



CERAMITE BKA

Ceramite® BKA is a low-cement refractory material based on bauxite. The aggregates in this formulation have a maximum grain size of 4–5 millimetres (0.16–0.20 inches).

Ceramite BKA properties include good strength, good wear resistance, and low thermal conductivity.

COMPOSITION

Material	Blend
	BKA
Al ₂ O ₃	84%
SiO ₂	8%
CaO	1%
Fe ₂ O ₃	1%

BENEFITS

- Good strength and wear resistance
- Low thermal conductivity
- Good chemical resistance

APPLICATIONS

- Ceramic anchors
- Meal pipe flaps
- Spash box flaps
- Grate for cooler crusher area



AVAILABILITY

- 25 kg (55 lb) bags
- 200 kg (441 lb) big bags
- Customized packaging following customer needs

STORAGE

- Ceramite mortar is to be stored in dry and frost-free conditions, off the ground in closed bags. With proper storage it will retain its properties for at least six months.
- Ceramite mortar should be stored at room temperature 15–25°C (59–77°F) for at least two days before use.
- Pre-fired, cast Ceramite parts for hot applications must not be exposed to water or moisture. If exposed, a full sequence of preheating must be performed.



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Property	Unit	Temperature	BKA
Density	kg/m ³ (lb/ft ³)	20°C	2900 (181)
		600°C	2800 (175)
		850°C	2800 (175)
Cold Modulus of Rupture	MPa (psi)	20°C	7 (1015)
		600°C	13 (1885)
		850°C	18 (2610)
		1000°C	31 (4495)
		1200°C	28 (4060)
		1500°C	24 (3480)
Cold Compressive Strength	MPa (psi)	20°C	50 (7250)
		600°C	112 (16,245)
		850°C	158 (22,915)
		1000°C	>220 (31,910)
		1200°C	200 (29,000)
		1500°C	180 (26,105)
Hot Modulus of Rupture	MPa (psi)	800°C	28 (4060)
		1000°C	>28 (> 4060)
Abrasion resistance (ASTM C704)	cm ³ (in ³)	20°C	8 (0.5)
		600°C	-
		850°C	2.7 (0.16)
Abrasion resistance (DIN52108)	cm ³ loss /50 cm ²	20	-
		850	3.9
Thermal Conductivity	W/m·K (BTU·in/ft ² ·hr·°F)	300°C	3.3 (23)
		600°C	2.7 (18.7)
		800°C	-
		900°C	2.9 (20)
Linear Thermal Expansion		(%)	0.6
Permanent Linear Change		20–850°C (%)	-0.3
Maximum Service Temperature - °C (°F)			1500 (2732)
Maximum Grain Size - mm			5

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