



Epic® 80AL

DESCRIPTION: High alumina brick made from bauxite and high-purity clays. Phosphoric acid added. Resistant to aluminum metal penetration due to other specific additives.

USES INCLUDE: Working linings for aluminum smelters.

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate % - calcined basis)

Al ₂ O ₃	78.0 %
SiO ₂	13.6 %
TiO ₂	1.6 %
Fe ₂ O ₃	1.3 %
P ₂ O ₅	5.0 %
CaO	0.1 %
MgO	0.1 %
Alkalies	0.1 %

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity, %	15
Bulk Density, g/cm ³ (pcf)	2.80 (175)
Linear Reheat Expansion, %	+ 0.5
At 600° Thermal Conductivity, W/MK (btu/sf/hr2)	2.25 (15.6)
Cold Crushing Strength, MPa (psi)	70 (10150)

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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