



## Epic® 35

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**DESCRIPTION:** General use fireclay brick

**USES INCLUDE:** Safety linings, structural applications, reheat furnaces, soaking pits, blast furnaces, coke ovens

### CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate % - calcined basis)

Al <sub>2</sub> O <sub>3</sub>	33 %
Silica	60 %
Fe <sub>2</sub> O <sub>3</sub>	2.2 %
TiO <sub>2</sub>	0.8 %
CaO	0.4 %
K <sub>2</sub> O	2.8 %
Na <sub>2</sub> O	0.3 %
MgO	0.5 %

### TYPICAL AS RECEIVED PROPERTIES:

Bulk Density g/cm <sup>3</sup>	1
Cold Crushing Strength Mpa	9
Lin. Therm. Expansion at 1000°C	0.5%
Permanent Lin. Change at 1330°C	-1.5%
Thermal conductivity (400 °C) w/mk	0.32
Thermal conductivity (600 °C) w/mk	0.35
Thermal conductivity (800 °C) w/mk	0.38
Thermal conductivity (1000 °C) w/mk	0.41

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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