



Fedgun 45AL

DESCRIPTION: Calcined clay-based hot application gunning mix.

USES INCLUDE: General maintenance gunning of runner inserts, burner blocks, well blocks, plug blocks, ladle lip retainers, tundishes, reheat walls, and any place where low-cost hot gunning is desired.

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate %)

SiO ₂	50.0%
Al ₂ O ₃	45.0%
CaO	1.7%
Fe ₂ O ₃	0.9%

TYPICAL AS RECEIVED PROPERTIES:

Bulk Density pcf (g/cm ³):	133 (2.13)
Cold Crushing Strength psi (MPa):	
As Gunned	600 (4)
MOR as Gunned psi (MPa):	200 (1.4)
Permanent Linnear Change (%):	
@ 110°C (230°F)	0.0
@ 815°C (1500°F)	- 0.2
@ 1510°C (2750°F)	- 0.5
Thermal Conductivity BTU/sf/hr (W/mk):	
@ 110°C (230°F)	7.2 (1.04)
@ 815°C (1500°F)	7.3 (1.05)
@ 1371°C (2500°F)	8.2 (1.18)
Water Needed (%):	6.0 - 8.0

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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