

FEDGUN 45AL

DESCRIPTION: Fedgun 45AL is a 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: (wt%)

Alumina	Al ₂ O ₃	45
Silica	SiO ₂	50
Lime	CaO	1.7
Ferric Oxide	Fe ₂ O ₃	0.9

TYPICAL AS RECEIVED PROPERTIES: (after application)

Water needed, %	6-8
Bulk Density, pcf (g/cm ³)	133 (2.13)
Modulus of Rupture as Gunned, psi (MPa)	200 (1.4)
Cold Crushing Strength as Gunned, psi (MPa)	600 (4)
Permanent Linear Change, %	
230°F (110°C)	0
1500°F (815°C)	-0.2
2750°F (1510°C)	-0.5
Thermal Conductivity, btu/sf/hr (W/mK)	
230°F (110°C)	7.2 (1.04)
1500°F (815°C)	7.3 (1.05)
2500°F (1371°C)	8.2 (1.18)

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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