



Fedplaster 55

DESCRIPTION: Fireclay based phosphate bonded plaster.

USES INCLUDE: General maintenance and construction of a variety of refractory applications.

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate % - as received basis less 3.3% P₂O₅)

Al ₂ O ₃	60.0 - 62.0%
SiO ₂	32.0 - 34.0%
TiO ₂	< 3.0%
Other	< 2.0%
Fe ₂ O ₃	< 1.5%
Na ₂ O + K ₂ O	< 1.0%

TYPICAL AS RECEIVED PROPERTIES:

Bulk Density g/cc (lb/ft ₃):	
@ 232° C (450° F)	1.6 - 1.8 (100 - 110)
@ 1093° C (2000° F)	1.6 - 1.8 (100 - 110)
@ 1371° C (2500° F)	1.6 - 1.8 (100 - 110)
Cold Crushing Strength psi (MPa):	
@ 232° C (450° F)	2 - 4 (300 - 500)
@ 1093° C (2000° F)	5 - 7 (700 - 1000)
@ 1371° C (2500° F)	7 - 14 (1000 - 2000)
Linear Change (Taken from 450° F):	
@ 1093° C (2000° F)	- 0.5 to + 0.5
@ 1371° C (2500° F)	- 0.5 to + 0.5
Maximum Grain Size mm (mesh):	0.85 (20)
Maximum Hot Face Temp °C (°F):	1650 (3000)

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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