INFORMATION BULLETIN

FedPlaster 55

DESCRIPTION: FedPlaster55 is a 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% P_2O_5)

Al_2O_3	60-62%
SiO_2	32-34%
TiO_2	<3.0%
Fe_2O_3	<1.5%
Na_2O+K_2O	< 1.0%
Other	< 2%

TYPICAL PROPERTIES:

Maximum Hot Face Temperature	1650˚C (3000˚F)
Maximum Grain Size	0.85 mm (20 Mesh)
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)
Linear Change (Taken from 450˚F)	
1093˚C (2000˚F)	-0.5 to +0.5%
1371˚C (2500˚F)	-0.5 to +0.5%
Cold Crushing Strength, MPa (psi)	
232˚C (450˚F)	2-4 (300-500)
1093˚C (2000˚F)	5-7 (700-1000)
1371˚C (2500˚F)	7-14 (1000-2000)

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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