



## FedPlaster 55

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**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<sub>2</sub>O<sub>5</sub>)

Al <sub>2</sub> O <sub>3</sub>	60-62%
SiO <sub>2</sub>	32-34%
TiO <sub>2</sub>	<3.0%
Fe <sub>2</sub> O <sub>3</sub>	<1.5%
Na <sub>2</sub> O+K <sub>2</sub> O	< 1.0%
Other	< 2%

### TYPICAL AS RECEIVED PROPERTIES:

Maximum Hot Face Temperature	1650°C (3000°F)
Maximum Grain Size	0.85 mm (20 Mesh)
Bulk Density, g/cc (lb/ft <sup>3</sup> )	
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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