



## Fedcast 92

**DESCRIPTION:** Low-moisture castable made from high-purity alumina.

**USES INCLUDE:** Ladle lips.  
Precast shapes where high refractoriness is required.

### CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate %)

Al <sub>2</sub> O <sub>3</sub>	91.2%
SiO <sub>2</sub>	6.0%
CaO	2.5%
MgO	0.1%
TiO <sub>2</sub>	0.02%
Fe <sub>2</sub> O <sub>3</sub>	0.03%
Alk	0.02%

### TYPICAL AS RECEIVED PROPERTIES:

Temperature ° C (° F)	Bulk Density pcf (g/cc)	Cold Crushing Strength psi (MPa)	Cold MOR psi (MPa)	Linear Change %
149 (300)	181 (2.90)	15,000 (103)	2250 (15)	0
815 (1500)	180 (2.88)	14,000 (96)	1900 (13)	- 0.1
1538 (2800)	178 (2.85)	11,000 (75)	4250 (29)	+ 0.2
1649 (3000)	185 (2.96)	16,000 (110)	5250 (36)	- 0.1

Material Installed Weight pcf (g/cc): 180 (2.88)  
 Maximum Grain Size (mesh): 4  
 Recommended Water Range: 5.5 - 6.0  
 Service Temperature ° C (° F): 1816 (3300)

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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