



## Fedcast 92

**DESCRIPTION:** Low-moisture castable made from high-purity aluminas

**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 %
Fe <sub>2</sub> O <sub>3</sub>	0.03 %
CaO	2.5 %
MgO	0.1 %
TiO <sub>2</sub>	0.02 %
AlK	0.02 %

### TYPICAL AS RECEIVED PROPERTIES:

Temp. °F (°C)	Linear Change %	Cold Mor PSI (Mpa)	Cold Crushing Strength PSI(Mpa)	Bulk Density pcf (g/cc)
300 (149)	0	2250 (15)	15000 (103)	181 (2.90)
1500 (815)	-0.1	1900 (13)	14000 (96)	180 (2.88)
2800 (1538)	+0.2	4250 (29)	11000 (75)	178 (2.85)
3000 (1649)	-0.1	5250 (36)	16000 (110)	185 (2.96)

Material installed weight, pcf (g/cc)	180 (2.88)
Recommended Water Range	5.5 - 6.0
Service temperature °F (°C)	3300 (1816)
Maximum grain size	4 mesh

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.

Version 20.11