

INFORMATION BULLETIN

Fedcast 85

DESCRIPTION: 85% alumina, low-cement castable.

USES INCLUDE: Ladle bottoms. Barrels. Safety linings. Precast shapes for myriad uses. Reheat furnace hearth.

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate % - calcined basis)

Al ₂ O ₃	83.55%
SiO ₂	11.57%
TiO ₂	2.81%
Fe ₂ O ₃	1.08%
CaO	0.64%
Alkalies	0.3%
$K_2O + Na_2O$	0.3%
MgO	0.05%

TYPICAL AS RECEIVED PROPERTIES:

Temperature	Bulk Density	Cold MOR	Hot MOR	Linear Change
° C (° F)	pcf (g/cc)	psi (MPa)	psi (MPa)	%
		per ASTM C865 & C133	per ATM C583	Per ASTM C865 & C133
104 (220)	178 (2.85)	1200 (8)	-	0.00
815 (1500)	174 (2.78)	1350 (9)	1900 (13)	- 0.10
1371 (2500)	175 (2.80)	1650 (11)	590 (4)	+ 0.50
1649 (3000)	177 (2.84)	1880 (13)	-	+ 0.10

Grain Size (mesh): - 3 Material Required lbs/ft^3 (kg/ft³): Maximum Service Temp ° C (° F): Water Required for Mixing (%):

175 (2.80) 1816 (3300) 5.5 ~ 6.25

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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