

INFORMATION BULLETIN

Fedcast 85

DESCRIPTION: 85% alumina, low-cement castable.

USES INCLUDE: Ladle bottoms.

Barrels.

Safety linings.

Precast shapes for a myriad of uses.

Reheat furnace hearth.

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate % - calcined basis)

AI₂O₃83.55% SiO₂ 11.57% 2.81% TiO₂ 1.08% Fe_2O_3 CaO 0.64% Alkalis 0.3% 0.3% $K_2O + Na_2O$ MgO 0.05%

TYPICAL AS RECEIVED PROPERTIES:

Temperature °C (°F)	Bulk Density pcf (g/cc)	Cold MOR psi (MPa) per ASTM C865 & C133	Hot MOR psi (MPa) per ATM C583	Linear Change % 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/ft 3): 175 (2.80) Maximum Service Temp $^{\circ}$ C ($^{\circ}$ F): 1816 (3300) Water Required for Mixing ($^{\circ}$): 5.5 $^{\sim}$ 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.

Version 20.11

Phone: 1-800-609-5711 www.FRCglobal.com