



Fedcast 80

DESCRIPTION: 80% 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	80 %
SiO ₂	13.25 %
Fe ₂ O ₃	1.06 %
TiO ₂	2.68 %
MgO	0.07 %
CaO	1.04 %
Alkalies, K ₂ O+Na ₂ O	0.32 %

TYPICAL AS RECEIVED PROPERTIES:

	Bulk Density Pcf (g/cc)	Cold MOR, psi (MPa) Per ASTM C865 & C133	Hot MOR, psi (MPa) Per ASTM C583	total Linear Change (%) Per ASTM C865 & C133
220°F (104°C)	174	1150	-	0.00
1500°F(815°C)	172	1400	2174	-0.04
2500°F(1371°C)	169	1650	530(4)	+0.60
3100°F(1704°C)	175	2250	-	-0.71
Maximum Service Temp. °F, (°C):			3250 (1787.77)	
Material Required/Cubic ft, lbs (kg)			173	
Water Required For Mixing, %			5.00 ~ 6.00	
Grain Size:			-3 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.

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