



Fedcast 50 LI

DESCRIPTION: A general purpose low iron conventional castable refractory containing burn out fibers.

USES INCLUDE:

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate %)

Al ₂ O ₃	48.0 - 50.0%
SiO ₂	40.0 - 42.0%
CaO	6.0 - 7.0%
Alkalies	2.1%
TiO ₂	2.0 - 3.0%
Other	< 2.0%
Fe ₂ O ₃	< 1.0%
Na ₂ O + K ₂ O	< 1.0%

TYPICAL AS RECEIVED PROPERTIES:

C865

Bulk Density g/cc (lb/ft³):

@ 25° C (75° F)	2.1 - 2.3 (130 - 144)
@ 110° C (230° F)	2.1 - 2.2 (130 - 137)
@ 816° C (1500° F)	2.0 - 2.1 (125 - 130)
@ 1370° C (2500° F)	1.9 - 2.0 (119 - 125)

C865

Linear Change (%):

@ 110° C (230° F)	- 0.2 to + 0.0
@ 816° C (1500° F)	- 0.4 to - 0.0
@ 1370° C (2500° F)	+ 1.6 to + 2.5

C133

Cold Crushing Strength psi (MPa):

@ 25° C (75° F)	3500 - 4500 (21 - 25)
@ 110° C (230° F)	5500 - 6500 (37 - 44)
@ 816° C (1500° F)	3000 - 4000 (20 - 27)
@ 1370° C (2500° F)	4500 - 6000 (31 - 41)



INFORMATION BULLETIN

Dry Material Required for Use	
kg/m ³ (lb/ft ³):	2000 - 2100 (125 - 130)
Maximum Grain Size mm (Mesh):	4.7 (4)
Maximum Hot Face Temperature	
° C (° F):	1595 (2900)
Water Required (%):	10 - 14

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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