



Fedcast 50 LI

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

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate %)

Al ₂ O ₃	48-50 %
SiO ₂	40-42 %
TiO ₂	2-3 %
Fe ₂ O ₃	< 1 %
CaO	6-7 %
Na ₂ O+K ₂ O	< 1 %
Other	< 2 %

TYPICAL AS RECEIVED PROPERTIES:

Bulk Density (C865):

25°C (75°F)	2.1-2.3 g/cc (130-144 lb/ft ³)
110°C (230°F)	2.1-2.2 g/cc (130-137 lb/ft ³)
816°C (1500°F)	2.0-2.1 g/cc (125-130 lb/ft ³)
1370°C (2500°F)	1.9-2.0 g/cc (119-125 lb/ft ³)

Linear Change (C865):

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%

Cold Crushing Strength (C133):

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

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

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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