



## Fedcast 60

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**DESCRIPTION:** Low-moisture castable made from high-purity alumina.

**USES INCLUDE:** Ladle safety linings.  
Reheat furnace walls/hearth.  
Tundish linings.  
Furniture.

### CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate %)	
Al <sub>2</sub> O <sub>3</sub>	60.0%
SiO <sub>2</sub>	35.8%
CaO	1.3%
Fe <sub>2</sub> O <sub>3</sub>	0.9%
Alk	0.1%
TiO <sub>2</sub>	0.1%
MgO	0.1%

### TYPICAL AS RECEIVED PROPERTIES:

Temperature °C (°F)	Bulk Density pcf (g/cc)	Cold MOR psi (MPa)	Linear Change (%)	Cold Crushing Strength psi (MPa)
149 (300)	159 (2.55)	2500 (17)	0.0 to - 0.2	8500 (58)
1204 (2200)	160 (2.56)	4000 (75)	- 0.1 to 0.3	14,000 (96)
1538 (2800)	156 (2.5)	4000 (75)	1.2 to 1.4	15,000 (103)
1649 (3000)	156 (2.5)	2750 (19)	- 0.2 to - 0.7	12,500 (86)

Service Temperature °C (°F):	1649 (3000)
Material Installed Weight pcf (g/cc):	160 (2.56)
Maximum Grain Size:	3 mesh (tyler)
Recommended Water Range (%):	
Self-flow or pump	4.8 - 5.5
Vibrated	4.0 - 4.7

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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