



Fedcast 60

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 ₂ O ₃ | 60.0% |
| SiO ₂ | 35.8% |
| CaO | 1.3% |
| Fe ₂ O ₃ | 0.9% |
| Alk | 0.1% |
| TiO ₂ | 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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