



PRODUCT DATA

ALSEY Hi-Cast 2700°F Refractory Castable

Description:

Dry, hydraulic setting, high duty refractory castable.

Sizes:

50lb bag {3A3050}

3000lb supersack {3A3300}

HI-CAST is a general purpose 2700°F castable effective for most standard operating service conditions.

Application:

	Water	Dry Hi Cast
Tamping	9-10 pints (U.S.)	100 lbs
Cast Vibrating	12-14 pints (U.S)	100 lbs
Puddling	14-20 pints (U.S)	100 lbs

Coverage 50lb sack = .4ft³

Stir dry mix thoroughly and add the correct ratio of water. Return unused portion to the bag. To avoid moisture absorption, store HI-CAST in a cool dry place.

Under normal atmospheric conditions, set will occur 8 to 10 hours after HI-CAST is mixed. Heat can usually be applied after 24 hours; however, starting temperature must be held below the boiling point of water to avoid the formation of steam which will result in excessive cracking, spalling and lower strength.

HI-CAST REFRACTORY CASTABLE

TYPICAL TEST DATA -- PHYSICAL PROPERTIES

ASTM C-24

P.C.E.	31-31½
Temperature Equivalent (melting), °F	3061-3090

ASTM C-20 after 2500°F

Apparent Porosity, %	25.9
Apparent Specific Gravity g/cc	2.71
Bulk Density lb/ft ³	125.2

ASTM C-113 Schedule B % linear

Reheat Change at 2550°F	2.2
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ASTM C-133 (4000 lb/min)

Temperature	MOR	Cold Crush
200°F	521	1241
1000°F	266	828
1500°F	187	1110
2000°F	189	714
2500°F	759	2302

TYPICAL CHEMICAL ANALYSIS, Wt. % (calcined basis)

Silica (SiO ₂)	46.25
Aluminum Oxide (Al ₂ O ₃)	44.88
Calcium Oxide (CaO)	4.30
Titanium Dioxide (TiO ₂).....	1.90
Iron Oxide (Fe ₂ O ₃).....	1.65
Potassium Oxide (K ₂ O)	0.60
Magnesium Oxide (MgO).....	0.32
Sodium Oxide (Na ₂ O)	0.08
Total.....	99.98
Loss on Ignition	0.68
Service Temperature (max. recommended), °F.....	2700

An MSDS is available upon request

Contact:

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