

PRODUCT

HEATCRETE 12
HIGH STRENGTH REFRACTORY CONCRETE
MEDIUM AGGREGATE

REFRACTORIES

TECHNICAL DATA

PHYSICAL PROPERTIES

Maximum Service Temperature	2200°F (1200° F Cyclic)
ASTM C-401	Class A
Lbs. Required Dry Mix per Cu. Ft.	117 lbs.
% Water by Weight Required for Casting	Approx. 16%
Bulk Density After Drying at 230°F	122 lbs./cu.ft.
MOR After Drying at 230°F	900 – 1350 psi
<u>Cold Crushing Strength</u>	
After Drying at 230°F	3400 – 4800 psi
After Firing at 1500°F	1300 – 1700 psi
<u>Permanent Linear Change</u>	
After Drying at 230°F	Negligible
After Heating to 1200°F	-0.4 to -0.8%

CHEMICAL ANALYSIS

Silica	[SiO ₂]	50.5%
Alumina	[Al ₂ O ₃]	28.8%
Iron Oxide	[Fe ₂ O ₃]	2.0%
Lime	[CaO]	18.0%

THERMAL CONDUCTIVITY BTU/SQ.FT./HR./°F/IN.

At 500°F	5.1
At 1000°F	5.3
At 1200°F	5.6

NOTE: All data subject to reasonable deviation and should not be used for specification purposes.

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