



GENERAL PURPOSE CASTABLES

HEATCRETE 23

HEATCRETE 25

HEATCRETE 27

SUPER HEATCRETE 28

PRODUCT
HEATCRETE 23

MEDIUM DUTY FIRECLAY CASTABLE
MEDIUM AGGREGATE

REFRACTORIES

TECHNICAL DATA

PHYSICAL PROPERTIES

Maximum Service Temperature	2300°F
ASTM C-401	Class B
Lbs. Required Dry Mix Per Cu. Ft.	120 lbs.
% Water by Weight Required for Casting	Approx. 16%
Bulk Density After Drying at 230°F	125 lbs./cu.ft.
Cold Crushing Strength After Drying at 230°F	2800 - 4000 psi
MOR After Drying at 230°F	500 - 800 psi

Permanent Linear Change

After Drying at 230°F	Negligible
After Heating to 1500°F	0.0 to -0.2%
After Heating to 2000°F	0.0 to -0.6%

CHEMICAL ANALYSIS

Silica	[SiO ₂]	51.0%
Alumina	[Al ₂ O ₃]	35.0%
Iron Oxide	[Fe ₂ O ₃]	3.2%
Lime	[CaO]	7.0%

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

At 500°F	5.1
At 1000°F	5.3
At 1500°F	5.4

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

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PRODUCT
HEATCRETE 25

**HIGH DUTY FIRECLAY CASTABLE
MEDIUM AGGREGATE**

REFRACTORIES

TECHNICAL DATA

PHYSICAL PROPERTIES

Maximum Service Temperature	2500°F
ASTM C-401	Class C
Lbs. Required Dry Mix Per Cu. Ft.	125 lbs.
% Water by Weight Required for Casting	Approx. 14%
Bulk Density After Drying at 230°F	129 lbs./cu.ft.
Cold Crushing Strength After Drying at 230°F	2500 - 3500 psi
MOR After Drying at 230°F	350 - 550 psi

Permanent Linear Change

After Drying at 230°F	Negligible
After Heating to 1500°F	0.0 to -0.3%
After Heating to 2300°F	0.0 to -1.1%

CHEMICAL ANALYSIS

Silica	[SiO ₂]	46.0%
Alumina	[Al ₂ O ₃]	39.0%
Iron Oxide	[Fe ₂ O ₃]	3.2%
Lime	[CaO]	7.6%

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

At 500°F	5.2
At 1500°F	5.4
At 2000°F	5.7

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PRODUCT
HEATCRETE 27

**SUPER DUTY FIRECLAY CASTABLE
MEDIUM AGGREGATE**

REFRACTORIES

TECHNICAL DATA

PHYSICAL PROPERTIES

Maximum Service Temperature	2700°F
ASTM C-401	Class D
Lbs. Required Dry Mix Per Cu. Ft.	135 lbs.
% Water by Weight Required for Casting	Approx. 12%
Bulk Density After Drying at 230°F	140 lbs./cu.ft.
Cold Crushing Strength After Drying at 230°F	2200 - 3400 psi
MOR After Drying at 230°F	500 - 1000 psi

Permanent Linear Change

After Drying at 230°F	Negligible
After Heating to 1500°F	0.0 to -0.3%
After Heating to 2500°F	0.0 to -0.8%

CHEMICAL ANALYSIS

Silica	[SiO ₂]	43.3%
Alumina	[Al ₂ O ₃]	46.4%
Iron Oxide	[Fe ₂ O ₃]	1.3%
Lime	[CaO]	5.7%

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

At 500°F	5.8
At 1500°F	6.2
At 2000°F	6.8

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PRODUCT

SUPER HEATCRETE 28

**LOW IRON, SUPER DUTY FIRECLAY CASTABLE
MEDIUM AGGREGATE**

REFRACTORIES

TECHNICAL DATA

PHYSICAL PROPERTIES

Maximum Service Temperature	2800°F
ASTM C-401	Class D
Lbs. Required Dry Mix Per Cu. Ft.	135 lbs.
% Water by Weight Required for Casting	Approx. 15%
Bulk Density After Drying at 230°F	140 lbs./cu.ft.
Cold Crushing Strength After Drying at 230°F	3600 - 4800 psi
MOR After Drying at 230°F	700 - 1050 psi

Permanent Linear Change

After Drying at 230°F	Negligible
After Heating to 1500°F	0.0 to -0.2%
After Heating to 2700°F	0.0 to 1.4%

CHEMICAL ANALYSIS

Silica	[SiO ₂]	42.5%
Alumina	[Al ₂ O ₃]	50.6%
Iron Oxide	[Fe ₂ O ₃]	0.9%
Lime	[CaO]	5.0%

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

At 500°F	5.8
At 1500°F	6.2
At 2500°F	6.6

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