

PRODUCT

HEATCRETE 23 ESC-T
REFRACTORY CASTABLE
COARSE AGGREGATE

REFRACTORIES

TECHNICAL DATA

PHYSICAL PROPERTIES

Maximum Service Temperature	2300°F
Lbs. Required Dry Mix per Cu. Ft.	142 lbs.
% Water by Weight Required for Casting	Approx. 9 -10%
Bulk Density After Drying at 230°F	147 lbs./cu.ft.

Modulus of Rupture

After Drying at 230°F	900 – 1300 psi
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Cold Crushing Strength

After Drying at 230°F	9000 – 14000 psi
After Heating to 1500°F	3000 – 5000 psi

Permanent Linear Change

After Drying at 230°F	Negligible
After Heating to 1500°F	0.0 to +0.3%
After Heating to 2200°F	+0.4 to +1.2%

CHEMICAL ANALYSIS

Silica	[SiO ₂]	38.0%
Alumina	[Al ₂ O ₃]	23.0%
Iron Oxide	[Fe ₂ O ₃]	11.3%
Lime	[CaO]	20.8%
Alkalies and Trace Minerals		6.9%

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

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

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

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