

PRODUCT

**ULTRA-TEK 85 ESC**

**ULTRA-LOW CEMENT CASTABLE,  
COARSE AGGREGATE**

**REFRACTORIES**

**TECHNICAL DATA**

PHYSICAL PROPERTIES

Maximum Service Temperature	3250°F
Lbs. Required Dry Mix per Cu. Ft.	180 lbs.
% Water by Weight Required for Casting (approx.)	4.5%
Bulk Density after Drying	185 lbs./cu. ft.
<u>Modulus of Rupture</u>	
After Drying	1,200 – 1,800 psi
MOR after 1500°F	3,000 – 5,000 psi
HMOR at 2500°F	700 – 1,100 psi
<u>Cold Crushing Strength after 1500°F</u>	12,000 – 17,000 psi
<u>Permanent Linear Change</u>	
After 1500°F	0.0 to -0.4%
After 2500°F	0.0 to +0.5%

CHEMISTRY

Silica	[SiO <sub>2</sub> ]	11.1%
Alumina	[Al <sub>2</sub> O <sub>3</sub> ]	83.5%
Iron Oxide	[Fe <sub>2</sub> O <sub>3</sub> ]	1.4%
Lime	[CaO]	1.0%
Titania	[TiO <sub>2</sub> ]	2.2%
Other		0.7%

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

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