



PRODUCT DATA

Brand Name:

QUIKLITE 3E-DS

Description: QUIKLITE 3E-DS is a special, dust suppressed, lightweight castable formulated for use in the petrochemical industry as a single component lining. This product can be installed by casting or conventional gunning methods. QUIKLITE 3E-DS features a reduced dust level and high strength. After the initial set, QUIKLITE 3E-DS can be initially heated without using the traditional ramp-and-hold heatup schedule. Use the recommended QUIKTURN heatup schedule for the initial heatup. For pumping or shotcreting, QUIKLITE 3E PC is recommended.

Physical properties shown are average values of samples taken under controlled conditions
ASTM test methods used where applicable

Maximum Service Temperature: 2200°F (1205°C)

Typical Water Required for Mixing (by weight) :

Casting 37%
Predampening for Gunning 9.0 to 11.0%

	Casting Data		Gunned Data	
Bulk Density (pcf)				
After 1500°F (815°C)	62	(0.99 g/cm ³)	70	(1.12 g/cm ³)
Cold Crushing Strength (psi)				
After 1500°F (815°C)	1150	(80.5 kg/cm ²)	900	(63 kg/cm ²)
Apparent Porosity (%)				
After 1500°F (815°C)	53.0%		45.0%	
Thermal Conductivity (K Factor)	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>
500°F (260°C)	1.4	0.20	1.55	0.27
1000°F (538°C)	1.6	0.23	1.75	0.34
1500°F (815°C)	1.7	0.25	2.00	0.36
Permanent Linear Change (%)				
Green to 1500°F (815°C)	-0.5 to 0.0		-0.5 to 0.0	
220°F (105°C) to 1500°F (815°C)	-0.4 to 0.0		-0.4 to 0.0	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	37.9
Silica (SiO ₂)	36.2
Lime (CaO)	20.4
Iron Oxide (Fe ₂ O ₃)	2.4
Titania (TiO ₂)	1.3
Magnesia (MgO)	0.1
Alkalies (Na ₂ O+K ₂ O)	1.7

Standard Packaging: 50 lb bag. 50 bags per pallet. Bulk packaging available.

Brand Code: 1667

The properties shown on this data sheet represent typical average results using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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