



PRODUCT DATA

Brand Name:

QUIKLITE 4LI

Description: QUIKLITE 4LI is a high purity lightweight castable formulated for use in reducing atmospheres. This product can be installed by casting or conventional gunning methods. QUIKLITE 4LI features a low iron oxide content and good strengths. After the initial set, QUIKLITE 4LI can be initially heated without using the traditional ramp-and-hold heatup schedule. Use the recommended QUIKTURN heatup schedule for the initial heatup.

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

Maximum Service Temperature: 2600°F (1427°C)

Typical Water Required for Mixing (by weight) :

Casting 36%
Predampening for Gunning 8.3 to 10.4%

	Casting Data		Gunned Data	
Bulk Density (pcf)				
After 1500°F (815°C)	69	(1.11 g/cm ³)	85	(1.36 g/cm ³)
Cold Crushing Strength (psi)				
After 1500°F (815°C)	750	(53 kg/cm ²)	900	(63 kg/cm ²)
Apparent Porosity (%)				
After 1500°F (815°C)	50.0%		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)	2.7	0.39	3.4	0.49
1000°F (538°C)	2.3	0.33	2.9	0.42
1500°F (815°C)	2.6	0.38	3.2	0.46
Permanent Linear Change (%)				
Green to 1500°F (815°C)	-0.4 to 0.0		-0.4 to 0.0	
220°F (105°C) to 1500°F (815°C)	-0.3 to 0.0		-0.3 to 0.0	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	44.1
Silica (SiO ₂)	40.2
Lime (CaO)	11.9
Iron Oxide (Fe ₂ O ₃)	1.0
Titania (TiO ₂)	0.9
Magnesia (MgO)	0.2
Alkalies (Na ₂ O+K ₂ O)	1.7

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

Brand Code: 8641

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.

RESCO PRODUCTS disclaims any express or implied warranties based on this sheet.

03/06/17 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet.

One Robinson Plaza - Suite 300, 6600 Steubenville Pike, Pittsburgh, PA, 15205 Phone: 888-283-5505