

## The Economic\$ of QuikLite

### Introducing QuikLite

The innovative leaders in the refractory industry are at it again. RESCO is proud to introduce a new family of products called **QuikLite**. This unique family of light weight monolithics combines rapid heat-up with a dust suppressant additive. Initially, seven products are available. Stay tuned for new additions to this innovative family of products.

QuikLite products compliment dense QuikTurn castables and gunning mixes for use in two-component linings to save time in dry-out.

### Heating QuikLite

Like regular QuikTurn products, **QuikLite** brands can be heated rapidly after they take their initial set. There is no need to cure them for 24 hours prior to starting the dryout. For linings with a total thickness less than 9 inches, these materials can be heated at 100°F per hour.

In the table below, you can see the comparable time required to reach 2000°F for **QuikLite** products versus normal insulating castables at various thicknesses. The normal insulating castable times include the 24 hour cure time.

	<b>QuikLite</b>	<b>Insulating Castable</b>	<b>Time Savings</b>
6" Lining	19 hours	52 hours	33 hours
9" Lining	25 hours	52 hours	27 hours
12" Lining	36 hours	87 hours	51 hours

Contact your Resco representative for more dry-out information.

# QUIKLITE



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QuikLite 3-35P

QuikLite 3

QuikLite 3 PC

QuikLite 7

QuikLite 8

QuikLite 8 PC

QuikLite 9 LI

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QuikLite 3-35

QuikLite 3

# QuikLite

**RAPID  
HEAT-UP  
INSULATING  
MONOLITHIC  
REFRACTORIES**



# QuikLite

**QuikLite 3-35P** is a 24-31 pcf, 2000°F insulating castable. Installation options include casting or gunning. It has a good strength to weight ratio, and is recommended for two component applications, or as a single component when the erosive conditions are not too severe.

**QuikLite 3** is a 60 pcf, 2400°F insulating castable. Installation options include casting or gunning.

**QuikLite 3 PC** is a 62 pcf, 2400°F insulating castable that can be installed via vibration casting, pump casting, or shotcreting.

PROPERTIES	QuikLite 3-35P		QuikLite 3		QuikLite 3 PC	QuikLite 7		QuikLite 8		QuikLite 8 PC	QuikLite 9LI	
	Cast	Gunned	Cast	Gunned	Cast	Cast	Gunned	Cast	Gunned	Cast	Cast	Gunned
Maximum Service Temperature, °F	2000		2400		2400	2400		2800		2800	2600	
Mixing Water, %	120-125	----	35-40	----	35-38	27-30	----	22-25	----	26	22-24	----
Bulk Density, pcf (1500 °F)	24-31	30-35	60	70-80	62	78	85-95	88	95-105	80-90	90	90-100
Total Linear Change, %												
After 1500 °F	-0.8 to -1.5	-0.8 to -1.5	-0.6 to -0.2	-0.7 to -0.3	-0.6 to -0.1	0.0 to -0.4	0.0 to -0.3	-0.1 to 0.2	-0.1 to 0.2	-0.3 to 0.0	-0.2 to 0.2	-0.2 to 0.3
After 2000 °F	-1.0 to -2.0	---	-0.8 to -0.4	-1.1 to -0.5	---	-0.5 to -1.2	-0.4 to -0.6	---	---	---	-0.2 to 0.2	-0.2 to 0.3
Modulus of Rupture, psi												
After 1500 °F	---	---	100-200	300-500	---	200-300	400-800	150-300	300-500	500-1400	150-300	300-500
Cold Crushing Strength, psi												
After 1500 °F	60-100	100-200	400-700	500-900	350-650	1200-2400	2000-3000	600-1400	900-1300	---	600-1000	800-1200
Thermal Conductivity or "K" Factor, BTU/ft <sup>2</sup> /hr/°F/in												
500 °F Mean Temp.	0.95	1.05	1.7	1.85	1.5	2.1	2.5	2.5	---	2.5	2.35	2.6
1000 °F Mean Temp.	1.05	1.15	1.65	1.9	1.7	2.35	2.8	2.7	---	2.7	2.5	3.8
1500 °F Mean Temp.	1.15	1.25	1.8	2.35	1.8	2.56	3.2	2.85	---	2.85	2.9	3
Chemical Analysis, %												
Al <sub>2</sub> O <sub>3</sub>	37.3		31.8		30.3		33.4		49.0	40.2		39.7
SiO <sub>2</sub>	28.2		48.3		51.4		48.6		43.2	49.1		45.6
Fe <sub>2</sub> O <sub>3</sub>	3.7		2.8		3.8		4.6		0.5	0.6		1.0
TiO <sub>2</sub>	1.2		0.6		0.9		0.8		0.5	0.5		0.9
CaO	18.9		14.8		12.1		12.0		5.6	8.0		12.0
MgO	6.9		0.1		0.3		0.3		0.3	0.2		Tr
Alkalies	3.8		1.6		1.1		0.2		0.9	1.5		0.8

**QuikLite 7** is a 78 pcf, 2400°F insulating castable. It is the ideal "one-shot" lining material for use in FCC regenerator and reactor vessel walls. It can be cast or gunned in place.

#### Data Sheet Disclaimer

The properties shown on this data sheet represent typical average results generated 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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**QuikLite 8** is an 88 pcf, 2800°F insulating castable. This 49% alumina product can be installed via casting or gunning.

**QuikLite 8 PC** is a high temperature, medium weight insulating castable with good strengths, formulated primarily for pump-casting. After the initial set, this unique insulating castable can be heated without the traditional ramp-and-hold heating schedule.

**QuikLite 9LI** can be gunned or cast in place. It has a temperature limit of 2600°F, a density of 90 pcf, and it is 40% alumina. This is a low iron mix.