



# Product Data

05/06: 5466  
Plus: 5467

## GREENLITE®-45-L GR®

### Technical Data

<u>Physical Data: (Typical)</u>	English Units	<u>Gun Applied</u>	SI Units
Maximum Recommended Temperature	2500°F		1370°C
Material Required	$\frac{\text{lb/ft}^3}{77}$		$\frac{\text{g/cm}^3}{1.23}$
Bulk Density			
220°F (105°C)	85		1.36
1500°F (815°C)	77		1.23
Water Required for Pre-damp of Standard version			
Weight % Dry Solids		7.5	
Per 100 Pounds (45.4 kg)	7 ¼ pints		3.4 liters
Water Required for Pre-damp of DS version		None	
Modulus of Rupture	$\frac{\text{lb/in}^2}$		$\frac{\text{MPa}}$
220°F (105°C)	800		5.5
1500°F (815°C)	400		2.8
Cold Crushing Strength			
220°F (105°C)	3400		23.4
1500°F (815°C)	2000		13.8
Permanent Linear Change			
220°F (105°C)		Nil	
1500°F (815°C)		-0.1	
2400°F (1315°C)		-1.0	
Thermal Conductivity			
At a Mean Temperature of	$\frac{\text{Btu}\cdot\text{in/hr}\cdot\text{ft}^2\cdot^\circ\text{F}}$		$\frac{\text{W/m}\cdot^\circ\text{C}}$
400°F (205°C)	4.6		0.66
800°F (425°C)	3.7		0.53
1200°F (649°C)	3.6		0.52
1600°F (871°C)	3.8		0.55
Particle Size			
Retained on 10 Mesh Tyler Screen		Less than 1%	
<u>Chemical Analysis, % Approximate</u>			
(Calcined Basis)			
Silica	(SiO <sub>2</sub> )	45.4	
Alumina	(Al <sub>2</sub> O <sub>3</sub> )	39.1	
Titania	(TiO <sub>2</sub> )	2.3	
Iron Oxide	(Fe <sub>2</sub> O <sub>3</sub> )	1.5	
Lime	(CaO)	10.2	
Magnesia	(MgO)	0.4	
Alkalies	(Na <sub>2</sub> O+K <sub>2</sub> O)	0.9	

Description: 2500°F Insulating Gunning Castable. PLUS signifies the fast-fire version.

Features: GREENLITE-45-L GR has excellent gunning characteristics. The non-DS (dust suppressed) versions should be pre-dampened for reduced dust. The DS version does not require predampening. It offers exceptional strengths and low densities.

Uses: GREENLITE-45-L GR is an ideal candidate for fluid catalytic cracking units, fluid coking units, and other industrial linings requiring low densities and high strengths.

The data given above are based on averages of the results on samples selected from initial or limited plant production. Variation from the above data may occur in individual tests and in large scale plant production. The test data cannot be taken as minimum or maximum values for specification purposes. ASTM test procedures used when applicable.