

KAST-O-LITE[®] 26 LI

(KAST-O-LITE[®] 25)

2600°F, Insulating, Refractory Castable

KAST-O-LITE 26 LI has now been improved to meet the demands of severe furnace environments. Low iron content minimizes destructive CO disintegration attack by reducing furnace atmospheres. Vastly improved strengths reduce cracking from mechanical abuse or steel shell flexing. Higher alumina content improves its maximum service temperature to 2600°F (1425°C). Lower water content for placement, reduces internal steam pressure during initial heat up. Ideal for boilers, reheat furnace floor backup, furnace stacks and flues, air heaters, aluminum furnace roof backup, and petrochem oil heaters.

KAST-O-LITE 26 LI Plus is the fast fire version of **KAST-O-LITE 26 LI**.

CHEMICAL ANALYSIS - Calcined Basis

Silica - SiO ₂	38.2%
Alumina - Al ₂ O ₃	46.5%
Iron Oxide - Fe ₂ O ₃	1.3%
Lime - CaO.....	10.5%
Magnesia - MgO	0.4%
Titania - TiO ₂	2.0%
Alkalies - Na ₂ O + K ₂ O.....	1.0%

A. P. Green is a supplier of high duty and super duty brick, insulating firebrick, high alumina brick, basic brick, silica brick, mortars, plastics, castables, and precast shapes as well as mineral wool block insulation and a complete ceramic fiber line. Stocks of these products are maintained in more than 90 locations throughout North America. And, having been in the refractories business for more than 80 years, A. P. Green can also provide the expertise and thorough technical assistance that you might require.

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Technical Data

	<u>Poured</u>	
MAXIMUM TEMPERATURE	2600°F	1425°C
QUANTITY REQUIRED	86 lb/ft ³	1.38 g/cm ³
QUANTITY IN PLACE	<u>lb/ft³</u>	<u>g/cm³</u>
220°F (105°C).....	86 - 98	1.38 - 1.57
1500°F (815°C).....	81 - 91	1.30 - 1.46
WATER REQUIRED	<u>Approximately</u>	
Weight % Dry Solids.....	19.8	
Per 100 Pounds (45.4 kg)	2 ³ / ₈ gals (U.S.)	9.0 liters
WORKING TIME - Minutes.....	20	
PERMANENT LINEAR CHANGE - ASTM C113	Nil	
220°F (105°C).....	0.1 - 0.3% shr.	
1500°F (815°C).....	0.2 - 0.6% shr.	
2000°F (1095°C).....	0.3 - 2.0% exp.	
2500°F (1370°C).....	0.3 - 2.0% exp.	
MODULUS OF RUPTURE - ASTM C133	<u>lb/in²</u>	<u>MPa</u>
220°F (105°C).....	500 - 900	3.4 - 6.2
1500°F (815°C).....	220 - 440	1.5 - 3.0
2000°F (1095°C).....	200 - 500	0.3 - 2.0
COLD CRUSHING STRENGTH - ASTM C133		
220°F (105°C).....	2400 - 3600	16.6 - 24.8
1500°F (815°C).....	1300 - 2100	9.0 - 14.5
2000°F (1095°C).....	1300 - 1800	9.0 - 12.4
PARTICLE SIZE - ASTM C92		
Retained on 4 Mesh Screen	Less Than 1%	
THERMAL CONDUCTIVITY	<u>Btu·in/hr·ft²·°F</u>	<u>W/m·°C</u>
400°F (205°C).....	3.6	0.52
800°F (425°C).....	3.4	0.49
1200°F (650°C).....	3.5	0.50
1600°F (870°C).....	3.7	0.53
2000°F (1095°C).....	4.0	0.58

NOTE: **KAST-O-LITE 26 LI Plus** will typically show 1-2 lb/ft³ lower density and up to 10% lower strength values.

The test data shown are based on average results on production samples and are subject to normal variation on individual tests. Accordingly, test data cannot be taken as establishing maximum or minimum specifications.