

Product Description

A low iron insulating castable for service up to 1430°C (2600°F), to be installed by gunning. Recommended for controlled atmosphere heat treatment furnaces. This concrete gives excellent results as back up insulation in transfer line and secondary reformers in ammonia production processes. Conforms to class Q and R of ASTM classification C-401-91.

A casting version is also available.

Properties	Firelite 2600LI G
Region of Manufacture	Europe
Bond Type	Hydraulic
Method of application	Gun
Maximum Service Temperature, °C (°F)	1430 (2600)
ASTM C401-91 Classification	Q, R
Estimated weight of dry material/m ³ of construction, kg (lb)	1230 (76.8)
Water addition, % by weight	47
Maximum grain size, mm	6
Packaging by weight, kg (lb)	30 (66)

The product(s) represented are intended for industrial refractory applications. The values and application information in this datasheet are given for guidance only. The values and the information given are subject to normal manufacturing variation and may be subject to change without notice. Morgan Advanced Materials – Thermal Ceramics makes no guarantees and gives no warranties about the suitability of a product, and you should seek advice to confirm the product's suitability for use with Morgan Advanced Materials.

Firelite[®] 2600LI G

Product Data Sheet



Density, kg/m ³ (pcf), ASTM C134		
	oven dried, 110°C (230°F)	1320 (82.4)
	after 5 hours firing, 815°C (1500°F)	1200 (74.9)
Cold crushing strength, MPa (psi), ASTM C133		
	oven dried, 110°C (230°C)	11.5 (1667.5)
	after 5 hours firing, 815°C (1500°F)	8.1 (1174.5)
Permanent linear change, %, ASTM C113		
	after 5 hours firing, 815°C (1500°F)	-0.2
	after 5 hours firing, 1200°C (2192°F)	-0.7
Thermal conductivity, W/m·K (BTU·in/hr·ft ² ·°F), ASTM C201/417		
	200°C (392°F)	0.18 (1.25)
	400°C (752°C)	0.26 (1.80)
	600°C (1112°F)	0.35 (2.43)
	800°C (1472°F)	0.34 (2.36)
	1000°C (1832°F)	0.34 (2.36)
	1200°C (2192°F)	0.31 (2.15)
Chemical composition, %		
	Alumina, Al ₂ O ₃	61.1
	Silica, SiO ₂	28.5
	Calcium Oxide, CaO	8.3
	Ferric Oxide, Fe ₂ O ₃	0.7
	Titanium Oxide, TiO ₂	0.3
	Alkali as, MgO+K ₂ O+Na ₂ O	1.2
	Ignition Loss	1.0

Storage and Shelf Life

- Should be stored in dry conditions, unopened packaging on pallets. Do not store on ground. Keep out of rain and damp conditions.
- Shelf life is of twelve months with original packaging, double shrink film and dehydrating agent provided if the monolithic is stored under these recommended conditions.

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