

Product Description

A low iron and low lime insulating castable for service up to 1540°C (2800°F) in controlled atmosphere applications. Recommended for casting monolithic shapes and furnace linings where good insulation and light weight are necessary

Properties	Firelite 2800LI
Region of Manufacture	Europe
Bond Type	Hydraulic
Method of application	Cast
Maximum Service Temperature, °C (°F)	1540 (2800)
Estimated weight of dry material/m ³ of construction, kg (lb)	1350 (84.3)
Water addition, % by weight	38
Maximum grain size, mm	6
Packaging by weight, kg (lb)	30 (66)

Whilst the values and application information in this datasheet are typical, they 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 - Thermal Ceramics.

Firelite[®] 2800LI

Product Data Sheet



Density, kg/m ³ (pcf), ASTM C134	
oven dried, 110°C (230°F)	1430 (89.2)
after 5 hours firing, 815°C (1500°F)	1340 (83.9)
Cold crushing strength, MPa (psi), ASTM C133	
oven dried, 110°C (230°C)	10.0 (1450)
after 5 hours firing, 815°C (1500°F)	6.0 (870)
Permanent linear change, %, ASTM C113	
after 5 hours firing, 815°C (1500°F)	-0.1
after 5 hours firing, 1200°C (2192°F)	-0.2
Thermal conductivity, W/m·K (BTU·in/hr·ft ² ·°F), ASTM C201/417	
200°C (392°F)	0.35 (2.43)
400°C (752°C)	0.40 (2.78)
600°C (1112°F)	0.44 (3.05)
800°C (1472°F)	0.48 (3.33)
1000°C (1832°F)	0.53 (3.68)
Chemical composition, %	
Alumina, Al ₂ O ₃	78.3
Silica, SiO ₂	13.0
Calcium Oxide, CaO	7.3
Ferric Oxide, Fe ₂ O ₃	0.4
Titanium Oxide, TiO ₂	0.2
Alkali as, MgO+K ₂ O+Na ₂ O	0.8
Ignition Loss	0.5

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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