

Product Description

A very light insulating concrete, for service up to 870°C (1560°F), to be installed by gunning or casting. A separate product data sheet is available for the casting version. It is recommended for sanitary ware kilns carts insulation.

Properties	Firelite BM G
Region of Manufacture	Europe
Bond Type	Hydraulic
Method of application	Gun
Maximum Service Temperature, °C (°F)	870 (1560)
Estimated weight of dry material/ m ³ of construction, kg (lb)	490 (30.6)
Water addition, % by weight	110
Maximum grain size, mm	8
Packaging in bags, kg (lb)	16 (35.3)

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Density, kg/m³ (pcf), ASTM C134	
oven dried @ 110°C (230°F)	540 (33.7)
after 5 hours firing @ 815°C (1500°F)	490 (30.6)
Cold crushing strength, MPa (psi), ASTM C133	
oven dried, 110°C (230°C)	1.0 (145)
after 5 hours firing, 815°C (1500°F)	0.7 (101.5)
Permanent linear change, %, ASTM C113	
after 5 hours firing, 815°C (1500°F)	-1.0
Thermal conductivity, W/m•K (BTU•in./hr•ft²•°F), ASTM C201/417	
200°C (392°F)	0.11 (0.76)
400°C (752°C)	0.14 (0.97)
Chemical composition, %	
Alumina, Al ₂ O ₃	27.4
Silica, SiO ₂	30.5
Calcium Oxide, CaO	24.0
Ferric Oxide, Fe ₂ O ₃	7.6
Titanium Oxide, TiO ₂	0.9
Alkali as, MgO+K ₂ O+Na ₂ O	8.7
Ignition Loss	2.0

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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