

Product Description

A very light insulating concrete, for service up to 980°C (1796°F), to be installed by casting. It is recommended for Ceramic Roller Kiln roof back up insulation.

Properties	Firelite LK RW
Region of Manufacture	Europe
Bond Type	Hydraulic
Method of application	Cast
Maximum Service Temperature, °C (°F)	980 (1796)
Estimated weight of dry material/m ³ of construction, kg (lb)	590 (36.84)
Water addition, % by weight	80
Packaging by weight, kg (lb)	30 (66)

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Density, kg/m ³ (pcf)	
oven dried, 110°C (230°F)	600 (37.4)
after 5 hours firing, 815°C (1500°F)	595 (37.1)
Cold crushing strength, MPa (psi)	
oven dried, 110°C (230°C)	0.8 (116)
after 5 hours firing, 815°C (1500°F)	0.5 (72.5)
Permanent linear change, %	
after 5 hours firing, 815°C (1500°F)	-1.1
Thermal conductivity, W/m·K (BTU·in/hr·ft ²)	
200°C (392°F)	0.13 (0.9)
400°C (752°C)	0.15 (1.04)
600°C (1112°F)	0.17 (1.18)
Chemical composition, %	
Alumina, Al ₂ O ₃	17.6
Silica, SiO ₂	48.5
Calcium Oxide, CaO	20.2
Ferric Oxide, Fe ₂ O ₃	5.2
Titanium Oxide, TiO ₂	0.6
Alkali as, MgO+K ₂ O+Na ₂ O	5.9

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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