Firelite® 2500 G

Product Data Sheet

Product Description

An extremely strong insulating gunning castable for service up to 1370°C. Designed for use in those areas that require a combination of light weight and high strength. Particularly used in petrochemical stills, as heater linings and for furnace doors, covers, kiln car tops, etc.

Properties	Firelite 2500 G
Region of Manufacture	Europe
Bond Type	Hydraulic
Method of application	Gun
Maximum Service Temperature, °C (°F)	1370 (2498)
Net material requirement, kg/m^3	1450
Water addition, % by weight	35
Maximum grain size, mm	6
Packaging in bags, kg (lb)	22 (48.5)

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Density, kg/m^3 (pcf), ASTM C134	
dried 24 hours @110°C (230°F)	1500 (93.6)
fired 5 hours @815°C (1500°F)	1420 (88.6)
Cold crushing strength, MPa (psi), ASTM C133	
dried 24 hours @110°C (230°C)	10.8 (1566.4)
fired 5 hours @815°C (1500°F)	8.4 (1218.3)
Permanent linear change, %, ASTM C113	
after 5 hours firing @815°C (1500°F)	-0.3
Thermal conductivity, W/m•K, ASTM C417	
200°C (392°F)	0.36
400°C (752°C)	0.39
600°C (1112°F)	0.42
800°C (1472°F)	0.45
1000°C (1832°F)	0.48
Chemical composition, %	
Alumina, Al_2O_3	44.4
Silica, SiO_2	34.4
Calcium Oxide, CaO	11.7
Ferric Oxide, Fe_2O_3	5.4
Titanium Oxide, TiO_2	1.5

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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