

Product Description

A conventional dense, 30% alumina, general purpose castable for temperature up to 1315°C (2400°F). It can be used as furnace floor or car top safety layer and for boiler applications where abrasion and impact resistance are not severe. A gunning version is also available.

Properties	Firecrete 2400
Region of Manufacture	Europe
Bond Type	Hydraulic
Method of application	Cast
Maximum Service Temperature, °C (°F)	1315 (2400)
ASTM C401-91 Classification	B
Estimated weight of dry material/ m ³ of construction, kg (lb)	2020 (126)
Water addition, % by weight	17
Maximum grain size, mm	3
Packaging in bags, kg (lb)	25 (55)

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Firecrete[®] 2400

Product Data Sheet



Density, kg/m ³ (pcf), ASTM C134	
oven dried, 110°C (230°F)	1900 (118.6)
after 5 hours firing, 815°C (1500°F)	1750 (109.2)
Cold crushing strength, MPa (psi), ASTM C133	
oven dried, 110°C (230°F)	22.2 (3219)
after 5 hours firing, 815°C (1500°F)	16.2 (2349)
after 5 hours firing, 1000°C (1832°F)	14.7 (2131)
Permanent linear change, %, ASTM C113	
after 5 hours, 815°C (1500°F)	-0.2
after 5 hours, 1000°C (1832°F)	-0.2
Thermal conductivity, W/m•K (BTU•in./hr•ft ² •°F), ASTM C201/417	
400°C (752°F)	0.56 (3.89)
600°C (1112°F)	0.60 (4.16)
800°C (1472°F)	0.68 (4.72)
1000°C (1832°F)	0.79 (5.48)
Chemical composition, %	
Alumina, Al ₂ O ₃	31.9
Silica, SiO ₂	48.9
Ferric oxide, Fe ₂ O ₃	4.9
Titanium oxide, TiO ₂	1.4
Calcium oxide, CaO	9.0
Alkalis as, MgO+K ₂ O+Na ₂ O	3.5
Ignition Loss	0.3

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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