

Product Description

A 1800°C (3270°F) conventional castable with very low iron content for use where extreme temperatures or chemical purity is needed. Typical applications are carbon black furnaces, support/pier blocks and burner blocks.

Properties	1800 T
Region of Manufacture	Europe
Bond Type	Hydraulic
Method of application	Cast
Maximum Service Temperature, °C (°F)	1800 (3270)
Water addition, % by weight	7 - 9
Maximum grain size, mm	6
Packaging in bags, kg (lb)	25 (55)

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1800 T

Product Data Sheet

Density, kg/m ³ (pcf), BS EN ISO 1927	
oven dried, 110°C (230°F)	2850 (177.8)
Cold crushing strength, MPa (psi), BS EN ISO 1927	
oven dried, 110°C (230°F)	50 (7250)
after 5 hours firing, 1000°C (1832°F)	30 (4350)
Permanent linear change, %, BS EN ISO 1927	
after 5 hours, 815°C (1500°F)	-0.1
after 5 hours, 1000°C (1832°F)	-0.1
after 5 hours, 1600°C (2912°F)	-0.15
Thermal conductivity, W/m•K (BTU•in./hr•ft ² •°F), BS EN ISO 1927	
600°C (1112°F)	2.16 (14.99)
Chemical composition, %	
Alumina, Al ₂ O ₃	97
Silica, SiO ₂	0.1
Ferric oxide, Fe ₂ O ₃	0.1
Calcium oxide, CaO	2.8

Instruction for Use

Highest strength is obtained with monolithic refractory by using the least amount of clean mixing water. This will allow thorough working of material into place by vibrating or rodding. A mechanical mixer is required for proper placement (paddle-type mortar mixers are best suited). After achieving a ball-in-hand consistency, mix for >4 minutes. Place material within 30 minutes after mixing.

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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