

Product Description

Insulating castable for service up to 1100°C (2010°F). It has exceptional strength in relation to low density and low thermal conductivity. Can be used in applications similar to those described by UOP 2-18-0. Conforms to classes O and P of ASTM classification C-401-91.

Properties	Firelite 124
Region of Manufacture	Europe
Bond Type	Hydraulic
Method of application	Cast
Maximum Service Temperature, °C (°F)	1100 (2010)
ASTM C401-91 Classification	O, P
Estimated weight of dry material/m ³ of construction, kg (lb)	900 (56)
Water addition, % by weight	50
Maximum grain size, mm	8
Packaging in bags, kg (lb)	25 (55)

Whilst the values and application information in this datasheet are typical, they are given for guidance only. The values and the information given are subject to normal manufacturing variation and may be subject to change without notice. Morgan Advanced Materials – Thermal Ceramics makes no guarantees and gives no warranties about the suitability of a product and you should seek advice to confirm the product's suitability for use with Morgan Advanced Materials - Thermal Ceramics.

Firelite[®] 124

Product Data Sheet



Density, kg/m ³ (pcf), ASTM C134		
	oven dried, 110°C (230°F)	1020 (63.6)
	after 5 hours firing, 815°C (1500°F)	900 (56.2)
Cold crushing strength, MPa (psi), ASTM C133		
	oven dried, 110°C (230°C)	7.8 (1131)
	after 5 hours firing, 815°C (1500°F)	4.8 (696)
Permanent linear change, %, ASTM C113		
	after 5 hours firing, 815°C (1500°F)	-0.2
	after 5 hours firing, 1100°C (2012°F)	-0.6
Thermal conductivity, W/m•K (BTU•in/hr•ft ² •°F), ASTM C201/417		
	200°C (392°F)	0.20 (1.39)
	400°C (752°C)	0.22 (1.53)
	600°C (1112°F)	0.24 (1.67)
Chemical composition, %		
	Alumina, Al ₂ O ₃	32.2
	Silica, SiO ₂	32.6
	Calcium Oxide, CaO	19.2
	Ferric Oxide, Fe ₂ O ₃	9.8
	Titanium Oxide, TiO ₂	1.1
	Alkali as, MgO+K ₂ O+Na ₂ O	4.7

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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