

## Product Description

Alcast 70FS has been specifically developed as a low thermal conductivity aluminium contact grade with excellent resistance to thermal shock and erosion.

Properties	Alcast 70FS
Region of Manufacture	Europe
Bond Type	Hydraulic
Method of application	Cast
Maximum Service Temperature, °C (°F)	1300 (2370)
Estimated weight of dry material/ m <sup>3</sup> of construction, kg (lb)	2070 (129.2)
Water addition, % by weight	6-7
Maximum grain size, mm	6
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.

# Alcast<sup>®</sup> 70FS

## Product Data Sheet



Density, kg/m <sup>3</sup> (pcf), BS EN ISO 1927	
oven dried, 110°C (230°F)	2120 (132.3)
Cold crushing strength, MPa (psi), BS EN ISO 1927	
oven dried, 110°C (230°F)	100 (14500)
after 5 hours firing, 1000°C (1832°F)	80 (11600)
Permanent linear change, %, BS EN ISO 1927	
after 5 hours, 1000°C (1832°F)	-0.3
after 5 hours, 1300°C (2372°F)	1
Thermal conductivity, W/m·k (BTU·in./hr·ft <sup>2</sup> ·°F), BS EN ISO 1927	
600°C (1112°F)	0.73 (5.06)
Chemical composition, %	
Alumina, Al <sub>2</sub> O <sub>3</sub>	18
Silica, SiO <sub>2</sub>	74
Ferric oxide, Fe <sub>2</sub> O <sub>3</sub>	0.2
Calcium oxide, CaO	2.2

### 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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