

Product Description

A bauxite based castable which has been specifically developed for applications in molten aluminium where erosion is excessive. Molten metal penetration and corundum growth are significantly reduced.

Properties	Alcast Extra HSF
Region of Manufacture	Europe
Bond Type	Hydraulic
Method of application	Cast
Maximum Service Temperature, °C (°F)	1400 (2550)
Estimated weight of dry material/ m ³ of construction, kg (lb)	2875 (179.5)
Water addition, % by weight	5.6-6.0
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[®] Extra HSF

Product Data Sheet



Density, kg/m ³ (pcf), ASTM C134	
oven dried, 110°C (230°F)	2880 (180)
Cold crushing strength, MPa (psi), ASTM C133	
oven dried, 110°C (230°F)	137 (19865)
after 5 hours firing, 1000°C (1832°F)	90 (13050)
Permanent linear change, %, ASTM C113	
after 5 hours, 1000°C (1832°F)	-0.3
after 5 hours, 1400°C (2550°F)	+/-1.5
Thermal conductivity, W/m·k (BTU·in./hr·ft ² ·°F), ASTM C201/417	
600°C (1112°F)	2.3 (15.96)
Chemical composition, %	
Alumina, Al ₂ O ₃	77
Silica, SiO ₂	8
Ferric oxide, Fe ₂ O ₃	1.1
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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