

Product Description

A 1600°C (2910°F) low iron material with good strength and excellent abrasion and thermal shock resistance. A conventional dense, general purpose castable that can be cast, gunned or trowelled.

Properties	Guncrete 160
Region of Manufacture	Europe
Bond Type	Hydraulic
Method of application	Cast/Gun
Maximum Service Temperature, °C (°F)	1600 (2910)
Estimated weight of dry material/ m ³ of construction, kg (lb)	1932 (120.6)
Water addition, % by weight	12-14
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.

Guncrete[®] 160

Product Data Sheet



Density, kg/m ³ (pcf), BS EN ISO 1927	
oven dried, 110°C (230°F)	2080 (129.8)
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)	32 (4640)
after 5 hours firing, 1600°C (3000°F)	80 (11600)
Permanent linear change, %, BS EN ISO 1927	
after 5 hours, 815°C (1500°F)	-0.2
after 5 hours, 1000°C (1832°F)	-0.3
after 5 hours, 1300°C (2372°F)	-0.6
after 5 hours, 1600°C (3000°F)	-1.8
Thermal conductivity, W/m•K (BTU•in./hr•ft ² •°F), BS EN ISO 1927	
600°C (1112°F)	0.79 (5.48)
Chemical composition, %	
Alumina, Al ₂ O ₃	50
Silica, SiO ₂	42
Ferric oxide, Fe ₂ O ₃	1
Calcium oxide, CaO	6

Instruction for Use

Use suitable gunite equipment. Material should be pre-dampened uniformly with approximately 2-3% by weight of clean water in a mechanical mixer before placing into gun. This will reduce rebound and dust. Add required water at nozzle for effective placement.

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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