

### Product Description

Kaogun 26 is a general purpose 1427°C (2600°F) guniting monolithic designed for minimal rebound. It is excellent for use in hot and cold gunning repair. It can also be troweled or plastered for repair of existing monolithic or brick linings.

### Instructions for Using

Gunning: Use suitable gunite equipment. Material should be pre-dampened uniformly with approximately 3-4% 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. Suggested air pressure at the nozzle is 2.5 to 3.5 bar (35 to 50 psi).

Watertight forms must be used when placing material. All porous surfaces that will come in contact with the material must be waterproofed with a suitable coating or membrane. For maximum strength, cure 24 hours in a damp condition before initial heat-up. Keep freshly placed monolithic warm during cold weather, ideally between 16°C and 27°C (60°F and 80°F) during wet curing process. New monolithic installations must be heated slowly the first time.

For detailed installation instructions and commissioning schedules, please contact your Morgan Advanced Materials-Thermal Ceramics representative.

Properties	Kaogun 26
Region of Manufacture	Americas
Bond type	Hydraulic
Raw material base	Chamotte
Method of installation	Gun
Maximum grain size, mm	6
Maximum service temperature, °C (°F)	1427 (2600)
Net material requirement, kg/m <sup>3</sup> (pcf)	1938 (121)
Packaging in bags, kg (lbs)	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.

# Kaogun™ 26 Monolithic

## Product Data Sheet



Properties	Kaogun 26	
<b>Bulk Density, kg/m<sup>3</sup> (pcf), ASTM C134</b>		
	fired 5 hours @ 816°C (1500°F)	1874-2018 (117-126)
<b>Modulus of Rupture, MPa (psi), ASTM C133</b>		
	dried 24 hours @ 105°C (220°F)	2.4-4.8 (350-700)
	fired 5 hours @ 816°C (1500°F)	1.4-2.8 (200-400)
	fired 5 hours @ maximum service temperature °C (°F)	4.1-6.9 (600-1000)
<b>Cold Crushing Strength, MPa (psi), ASTM C133</b>		
	dried 24 hours @ 105°C (220°F)	13.1-20.7 (1900-3000)
	fired 5 hours @ 816°C (1500°F)	9.0-15.9 (1300-2300)
	fired 5 hours @ maximum service temperature °C (°F)	15.2-24.1 (2200-3500)
<b>Permanent Linear Change, %, ASTM C113</b>		
	dried 24 hours @ 105°C (220°F)	0 to -0.2
	fired 5 hours @ 816°C (1500°F)	-0.1 to -0.4
	fired 5 hours @ maximum service temperature °C (°F)	0 to +1.0
<b>Chemical Analysis, %, Calcined Basis</b>		
	Alumina, Al <sub>2</sub> O <sub>3</sub>	47
	Silica, SiO <sub>2</sub>	43
	Iron Oxide, Fe <sub>2</sub> O <sub>3</sub>	1.8
	Titania, TiO <sub>2</sub>	2
	Lime, CaO	5.7
	Magnesia, MgO	0.2
	Alkali as, Na <sub>2</sub> O + K <sub>2</sub> O	0.4
<b>Thermal Conductivity, W.m•K (BTU•in/hr•ft<sup>2</sup>•°F), ASTM C417</b>		
	260°C (500°F)	0.75 (5.2)
	538°C (1000°F)	0.78 (5.4)
	816°C (1500°F)	0.82 (5.7)
	1093°C (2000°F)	0.83 (5.8)

### Storage and Shelf Life

- Monolithics should be stored in a dry, well-ventilated area and held off the ground on pallets ideally with the original packaging intact. Keep out of rain and damp conditions.
- Normal shelf life is 12 months from date of manufacture when properly stored.

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