

Data sheet

Kaowool™ VF shapes

ENGLISH

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Description

Kaowool™ VF Shapes are insulating products made from a mixture of refractory ceramic fibre by vacuum forming.

This process allows the production of a variety of configurations, tailored to the particular application and ranging from simple sections (such as sleeves, cones) to complex shapes. Compositions are available for service temperatures from 1260°C to 1600°C. For utilisation over this range of temperature, please refer to our Alphawool datasheet. Shapes can also be produced in a strong composition which gives higher strength and density. Thermal properties are similar to the normal grades but with improved resistance to erosion.

Kaowool™ 1260 LB and **1400 LB** is a flexible shape which shows good dimensional resilience after compression & make utilization of these shapes very easy where rigid shapes are unsuitable.

Kaowool™ VF can also be supplied as a **Wet Pak** in size of 1000×1000 mm, packed wet into individual plastic bags. The sheets can be formed in situ to any shape desired, which on drying, develops properties similar to those of Kaowool™ VF products. Wet Pak have a shelf life in a moist state of up to 42 days provided that the bags remain sealed and are maintained at temperatures within the range of 10° C to 50° C (50° F to 122° F).

All shapes have low shrinkage at temperatures within their service rating and retain the properties of high insulation light weight and resistance to thermal shock which are characteristic of Kaowool Ceramic Fibre.

The unfired material can be easily cut or machined.

Type

Vacuum formed shapes.

Classification temperature

From I260°C up to I600°C

The maximum continuous use temperature depends on the application. Please contact Morgan Advanced Materials, Thermal Ceramics for advice.

Typical applications

These versatile products can be used where rigid shapes, self supporting are required for high temperature insulation (according to the mix). Designed as per customer drawings, they are easy to install.

Kaowool 1260LB is particularly recommended for sealing applications.

Special treatment

Kaowool Hardener or Cement may be applied, if required, to shapes in order to provide a protective surface coating up to a temperature of 1260° C.

Kaowool 1260 Shapes can also be supplied in through-hardened material to individual customer requirements.





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1260 Strong 1260 LB 1400 1600 1260 1260 1260 1400 1600 Classification temperature, °C **Properties Measured at Ambient Conditions** (23°C/50% RH) white / tan Colour white / tan white / tan white / tan white / tan 200 Nominal density, kg/m³ 280 330 280 320 Modules of rupture, MPa 2.7 >1.4 Flexible >0.99 >0.4 Unfired Compressive strength, MPa @5% relative deformation 0.56 **High Temperature Performance** Approx. weight loss on 1st firing % 5-7 5-7 5-7 5-7 Thermal conductivity W/m.K, (ASTM C-201) at mean temperature of: 0.07 0.06 0.07 0.06 @200°C 0.09 0.09 0.09 0.08 0.08 @400°C 0.11 0.12 0.11 0.1 0.11 @600°C 0.15 0.16 0.15 0.13 0.14 @800°C 0.18 0.16 @1000°C 0.19 0.23 @1200°C

@1400°C

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SUPERWOOL® is a patented technology for high temperature insulation wools which have been developed to have a low bio persistence (information upon request). SUPERWOOL® products may be covered by one or more of the following patents, or their foreign equivalents:

SUPERWOOL® PLUS and SUPERWOOL® HT products are covered by patent numbers: USS714421 and US7470641, US7651965, US7875566 PI544177 and EP1725503 respectively.

A list of foreign patent numbers is available upon request to Morgan Advanced Materials plc.

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