



Kaowool[®] Felt

Product Data Sheet

Product Description

Kaowool Felts are manufactured using high-purity refractory fibres and bonded with organic binders. These felts have classification temperatures from 1260°C to 1600°C (2300°F to 1912°F).

Kaowool Felts are lightweight, have good handleability, and feature excellent flexibility and resilience, making them ideal for manufacturing complex die-cutting components and gaskets. In addition, advanced production techniques ensure uniform fibre distribution and close control of thickness and density.

Other beneficial properties include low thermal conductivity, low thermal mass and exceptionally high thermal shock resistance.

Kaowool Felts is supplied in rolls, facilitating maximum material utilisation and increasing the die-cutting machine's flexibility. In some thermal equipment, smoke is generated when the binder is burnt off and dissipates quickly.

Features

- High temperature stability
- Low thermal conductivity, low heat storage
- Excellent flexibility, resilience
- Easy to handle, cut and process

Applications

- High temperature expansion joints
- High temperature gaskets
- Melt-resistant metal thermal insulation
- Commonly used thermal resistance materials
- Other High Temperature Insulation

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Properties	Kaowool 1260 Felt	Kaowool 1400 Felt	Kaowool 1500 Felt	Kaowool 1600 Felt
Colour	White	White	White	White
Classification Temperature, °C (°F), EN 1094-1	1260 (2300)	1400 (2192)	1500 (2282)	1600 (2552)
Continuous Use Temperature, °C (°F)	1050 (1922)	1400 (2192)	1250 (2282)	1400 (2192)
Density, kg/m ³ (pcf), EN 1094-1, as supplied dry	160 (10)	160 (10)	140 (8.7)	140 (8.7)
Tensile strength, MPa (psi), EN 1094-1 (2008)	0.09 (13.05)	0.09 (13.05)	0.06 (8.7)	0.06 (8.7)
Loss of Ignition, %	7	7	-	7
Permanent Linear Shrinkage%, after 24 hours, EN 1094-1				
1200°C	3.8	-	-	-
1350°C	-	3.3	-	-
1400°C	-	-	2.2	-
1500°C	-	-	-	2.2
Chemical Analysis, %				
Alumina, Al ₂ O ₃	44-48	33-37	-	65-70
Silica, SiO ₂	52-56	48-52	-	30-35
Zirconium oxide, ZrO ₂	-	13-17	-	-
Others	-	<0.5	-	<0.5

Product Availability

Kaowool Felts are manufactured in China.

Please contact your regional Morgan Advanced Materials - Thermal Ceramics representative to support providing specific packaging availability for your local business needs.

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