

Kaowool® Blanket

Datasheet Code US: 5-14-205

SDS: 201

Kaowool® Blanket is produced from kaolin clay by the blowing process and offers excellent handlability, high temperature stability and unparalleled dimensional tolerances



Features

- Low thermal conductivity
- Excellent thermal shock resistance
- Low heat storage capacity
- No organic binders

Applications

- Furnace Linings
- Kiln Linings
- Boiler Insulation
- Furnace Door Seals
- Duct Lining
- Pipe Wrap Insulation
- Investment Casting Mould Wrap
- Heat Shields
- Field Stress Relieving
- Removable Thermal Insulation Pads
- Steam and Gas Turbine Insulation

The values given herein are typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes. Check with your Morgan Advanced Materials office to obtain current information.



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Blanket Product Name	<u>Kaowool</u>
Fiber Class	RCF
Physical Properties	
Color	off-white
Continuous Use Temperature, °F	2000
Continuous Use Temperature, °C	1093
Classification Temperature, °F	2300
Classification Temperature, °C	1260
Density, pcf	4, 6, 8
Denisty, kg/m ³	64, 96, 128
Chemical Analysis, % weight basis after firing	
Alumina, Al ₂ O ₃	45
Silica, SiO ₂	50-55
Ferric oxide, Fe ₂ O ₃	1.0
Titanium oxide, TiO ₂	2.2
Alkalies, NaO ₂ + K ₂ O	0.2
Other	trace
Leachable Chlorides, ppm	1-2
Thermal Conductivity, BTU•in/hr•ft², per ASTM C201	
<u>Density, pcf</u>	<u>8</u>
500°F	0.44
1000°F	0.87
1500°F	1.45
2000°F	2.09
Thermal Conductivity, W/m•K, per ASTM C201	
<u>Density, kg/m³</u>	<u>128</u>
260°C	0.06
538°C	0.12
816°C	0.21
1093°C	0.3

Availability and Packaging

Kaowool Blankets are packaged in cartons and stretch-wrapped onto pallets. Some size and density combinations may require a minimum order. Please check with your Thermal Ceramics office for current lead times and availability.

Thickness, inch (mm)	Density, lb/ft ³ (kg/m ³)			Length, inch (mm)	Width, inch (mm)	ft ² (m ²)/carton for 24 inch (610mm) width rolls
	4 (64)	6 (96)	8 (128)			
¼ (6)	○	○	○	240 (6095)	24, 48 (610, 1220)	160 (14.9)
½ (13)	○	○	○	600 (15240)		100 (9.3)
1 (25)	○	○	○	300 (7620)		50 (4.6)

○ = Kaowool

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