

Ceramic Fibre Blankets

“Kaowool™ Blanket S - Kaowool™ Blanket SZr”

Material Type: Refractory fibre blankets.

Description

Kaowool™ Blanket S and Kaowool™ Blanket SZr are made from bulk fibers produced by the most modern spinning process. This produces fibres of exceptional length and uniform distribution which are ideal for manufacturing blanket of controlled density, high tensile strength and resiliency.

Classification Temperature

Kaowool™ Blanket S : 1260 °C

Kaowool™ Blanket SZr: 1425 °C

The maximum use temperature depends on the application. Refer to our company for advice.

Features

- They can be produced in different densities (64 kg/m³ – 160 kg/m³).
- They are characterized by excellent thermal insulation.
- Maintain their properties at high temperatures.
- It is possible to surpass the use temperature in some applications.
- They have low heat storage.
- They are easy to install.
- Unaffected by most chemicals, except hydrofluoric acid and phosphoric acid and strong alkali.
- They are not affected by thermal shock at high temperatures and never damaged by abrupt heating and cooling.
- They maintain their resistance against a destruction that may occur during installation.
- They have good acoustic properties.

Applications

- For the wall, hearth, roof and doors of the industrial furnaces.
- For boiler insulation.
- Glass industry.
- For furnace door seals.
- Fire protection.
- Duct seals and pipe insulation.
- Domestic appliances.
- Steam and gas turbines.
- Crucible covers.
- Ceramic industry.
- Acoustic and thermal insulation of the equipment operating at high temperature.
- Petrochemical and marine industry.



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“Kaowool™ Blanket S - Kaowool™ Blanket SZr”

Main Properties (23 °C / 50% Humidity)	Kaowool™ Blanket S		Kaowool™ Blanket SZr
Colour	White		
Classification Temperature, °C	1260		1425
Density, kg/m ³	64, 96, 128, 160		
Chemical Composition, %			
Al ₂ O ₃	44		34.9
SiO ₂	56		50
Cr ₂ O ₃	-		-
ZrO ₂	-		15.2
Fe ₂ O ₃ +TiO ₂	0.15		0.15
CaO+MgO	0.05		0.09
Na ₂ O+K ₂ O	0.10		0.10
Thermal Conductivity, W/m.K			
200 °C	64 kg/m ³	96 kg/m ³	128 kg/m ³
400 °C	0.07	0.06	0.06
600 °C	0.12	0.11	0.10
800 °C	0.20	0.16	0.15
1000 °C	0.30	0.23	0.20
Specific Heat Capacity at 1090 °C, kJ/kg.K		1.13	
Permanent Linear Shrinkage after 24h at 1200 °C, %	3		1

Availability and Packaging

Blankets are packed in cartons, on pallets wrapped in stretchable film.

Thick (mm)	Kaowool™ Blanket S				Kaowool™ Blanket SZr				Length (mm)	Width (mm)	m ² / Carton
	64	96	128	160	64	96	128	160			
6		X	X	O					25620	610	13.42
10		X	X	O					18500	610	11.28
13	X	X	X	O		X	X		14640	610	8.93
19	O	X	X	O					9760	610	5.95
25	X	X	X	X		X	X	X	7320	610	4.46
38	X	X	X	O	O	O	X	O	4880	610	2.98
50	O	X	X		O	O	X	X	3660	610	2.23

Marks (o) and/or in width of 1220 mm are also produced depending on the quantity of the requirement.

The values given herein are typical average values obtained in accordance with standard test methods and subject to normal manufacturing variations. They are supplied as technical data and may change without notice. Contact our company to obtain detailed information.