

Isopaper

Technical information

Description

Isopapers are made from alkaline earth silicate wool and specially selected organic binders and are suitable for high-temperature applications due to their physical properties. The high-temperature fiber used has excellent biosolubility and is therefore not subject to classification (hazardous material classification).

Application

Isopapers can be used as thermal insulation for various applications, e.g. as a seal or as a release material.



General properties

- ◆ High temperature resistance (up to 1.200 °C)
- ◆ Good processability
- ◆ Low weight
- ◆ Excellent flexibility
- ◆ Easy to roll, cut and easy to shape

Technical Properties

Colour:	bluish-white
Melting point:	> 1330 °C
Classification temperature:	1200 °C
Density:	140 - 160 kg/m ³
Tensile strenght:	> 350 kPa
Paper type:	washed
Loss on ignition:	< 12 %

Chemical analysis

wt.%

SiO ₂	61 - 67 %
CaO	27 - 33 %
MgO	2,5 - 6,5 %
Al ₂ O ₃	< 1 %
Fe ₂ O ₃	< 0,6 %

Thermal Conductivity

(W/mK)

200 °C mean temperature	0,06
400 °C mean temperature	0,10
600 °C mean temperature	0,15
800 °C mean temperature	0,22

Permanent Linear Shrinkage after 24 hours

1200 °C	< 4,0 %
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Availability

Thickness (mm)	Roll width (mm)	Roll lenght (m)
1	1000	40
2	1000	20
3	1000	10
4	1000	10
5	1000	10
6	1000	10

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