

# INSULFRAX® PAPER

Insulfrax Paper products are manufactured from Insulfrax alkaline earth silicate wool, blended with specially selected organic binders to give flexible papers with exceptional characteristics.

Advanced production techniques ensure a highly uniform structure enhanced by low thermal conductivity, good handling strength and a smooth surface. Insulfrax Papers are available in a range of thicknesses and roll sizes.



## GENERAL CHARACTERISTICS

Insulfrax® Paper has these outstanding characteristics:

- High temperature stability (up to 1200°C);
- Good handling strength
- Lightweight
- Excellent flexibility
- Easy to warp, cut and shape

## TYPICAL PRODUCT PARAMETERS

<b>Typical Chemical analysis</b> (fibre wt. %)	
SiO <sub>2</sub>	61.0 – 67.0
CaO	27.0 – 33.0
MgO	2.5–6.5
Al <sub>2</sub> O <sub>3</sub>	< 1.0
Fe <sub>2</sub> O <sub>3</sub>	< 0.6

## PHYSICAL PROPERTIES

Colour	White
Classification temperature*	1200°C
Melting point	> 1330°C
Tensile Strength	> 350 Kpa
Paper type	Washed
Product Density kg/m <sup>3</sup>	150
Loss on ignition	< 12.0 wt%

\*Classification Temperature is not a definition of the operational limit of these products, especially when long term physical or dimensional stability is a factor. For certain applications operational temperature limits may be significantly reduced. For assistance or clarification please contact Insulcon . Where appropriate Physical Properties data measured according to EN 1094-1.

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## THERMAL CONDUCTIVITY DATA (W/MK)

200°C Mean Temp.	0.05
400°C Mean Temp.	0.08
600°C Mean Temp.	0.11
800°C Mean Temp.	0.15
1000°C Mean Temp.	0.20

## PERMANENT LINEAR SHRINKAGE 24 hour soak

1200°C	< 4.0 %
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## TYPICAL APPLICATIONS

- High temperature gaskets and seals
- Ingot mould liners
- Expansion joints
- Automotive heat shields
- Molten metal transfer systems (back-up insulation)

## AVAILABILITY

Thickness	1 mm	2 mm	3 mm	4 mm	5 mm	6 mm
Roll Length (m)						
Width						
610 mm	125	60	35	25	20	15
1000 mm	330	180	110	80	60	45
1260 mm	330	180	110	80	60	45

Other thickness / sizes may be available on request subject to a minimum order requirement.

Insulfrax papers are available with aluminium foil and other coverings subject to order.