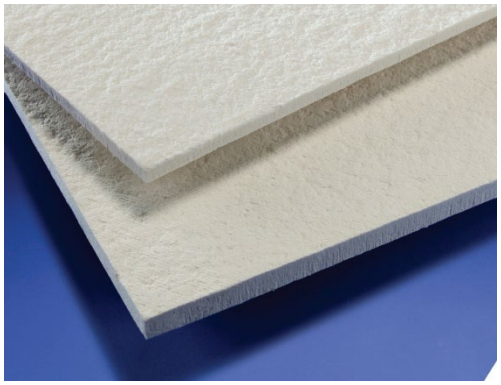
INSULFRAX 110 ZK&LD BOARD

INSULCON
LEADER IN HIGH TEMPERATURE SOLUTIONS



Insulfrax 110ZK & 110LD boards are manufactured from alkaline earth silicate wool, blended with specially selected inorganic and organic binders to give rigid boards with exceptional characteristics.

Insulfrax 110ZK & 110LD boards is easy to cut and shape with standard tools. These boards exhibit high strength and rigidity coupled with excellent insulating performance and high temperature stability.

Insulfrax 110ZK & 110LD board is particularly suited to applications where reduced out-gassing and/or high definition mechanical machining are required. Fibercon 1100i Board products are available in a wide range of sizes and thicknesses.

GENERAL CHARACTERISTICS

Insulfrax 110ZK & 110LD board has these outstanding characteristics:

- High temperature stability
- Low thermal conductivity
- Resistance to thermal shock
- Good handling strength
- Easy to cut with standard tools

TYPICAL CHEMICAL ANALYSIS (fibre wt. %)

Insulfrax 110	**ZK**	**LD**
SiO_2	61.0 – 67.0	61.0 – 67.0
CaO	27.0 – 33.0	27.0 – 33.0
MgO	2.5 – 6.5	2.5 – 6.5
Al_2O_3	< 1.0	< 1.0
Fe_2O_3	< 0.6	< 0.6

Physical Properties

Insulfrax 110ZK & 110LD boards		
Colour	White/Tan	White/Tan
Melting Point	> 1330°C	> 1330°C
Product Density	360 kg/m^3	270 kg/m^3
Modules of Rupture	> 700 kPa	> 700 kPa
Use limit*	1100°C	1100°C
Loss on ignition	< 9.0%	<7.0%

*Use limit refers to the maximum short term temperature limit. The maximum continuous use limit for boards depends upon application conditions. For certain applications continuous use temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Insulcon office. Where appropriate Physical Properties data measured according to EN 1094-1.

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TECHNICAL DATASHEET

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Thermal conductivity (W/MK)

400°C Mean Temp.	0,10	0,07
600°C Mean Temp.	0,12	0,10
800°C Mean Temp.	0,15	0,14

Permanent linear shrinkage, 24 Hour Soak

1100°C	< 4.0%
	< 4.0%

Typical applications

- Shapes for domestic appliances
- Molten metal transfer systems
- Hot gas duct linings
- Rigid high temperature gaskets and seals
- Heat shields

Any new and/or special use of these products, whether or not in an application listed in our literature, must be submitted to our technical department for their prior written approval.

Availability

Sheet thicknesses: 3, 5, 6, 10, 12, 15, 18, 20, 25, 30. 40 and 50 mm. (Insulfrax 110LD is not available in 3 mm.)
Sheet dimensions: 1000 x 610 mm and 1250 x 1000 mm.

Other thicknesses/sizes may be available on request subject to minimum order requirements

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Form: A1-069
Effective: 20032025/RH/ka
Supersedes: 02112022/es
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LD: 1115

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