

INSULFRAX BOARD 110ZK & 110 LD

REFRACTORY FIBER PRODUCTS

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

110ZK 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.

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



GENERAL CHARACTERISTICS

The Insulfrax Board 110 range 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 Board	110 ZK	110 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 ₂ O ₃	< 1.0	< 1.0
Fe ₂ O ₃	< 0.6	< 0.6

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TYPICAL PRODUCT PARAMETERS

Physical Properties

Insulfrax Board	110 ZK	110 LD
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 our Insulcon office. Where appropriate Physical Properties data measured according to EN 1094-1.

THERMAL CONDUCTIVITY DATA (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%
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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.

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AVAILABILITY

Thickness	Insulfrax Board 110 ZK	Insulfrax Board 110 LD	Sheet Dimension (mm)	Sheets per Carton	Sheets per Pallet	Sheet Dimension (mm)	Sheets per Carton	Sheets per Pallet
3 mm	X		1000 x 610	32	704	1250 x 1000	32	352
5 mm	X	X	1000 x 610	20	440	1250 x 1000	20	220
6 mm	X	X	1000 x 610	16	352	1250 x 1000	16	176
10 mm	X	X	1000 x 610	10	220	1250 x 1000	10	110
12 mm	X	X	1000 x 610	8	176	1250 x 1000	8	88
15 mm	X	X	1000 x 610	6	132	1250 x 1000	6	66
18 mm	X	X	1000 x 610	5	110	1250 x 1000	5	55
20 mm	X	X	1000 x 610	5	110	1250 x 1000	5	55
25 mm	X	X	1000 x 610	4	88	1250 x 1000	4	44
30 mm	X	X	1000 x 610	3	68	1250 x 1000	3	34
40 mm	X	X	1000 x 610	2	44	1250 x 1000	2	22
50 mm	X	X	1000 x 610	2	44	1250 x 1000	2	22
60 mm		X	1000 x 610	1	32	1250 x 1000	1	16
75 mm		X	1000 x 610	1	22	1250 x 1000	1	11

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

HANDLING INFORMATION:

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storage or use