

ISOFRAX BOARD 120ZK & 120LD

Description

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

120ZK 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.



120LD is particularly suited to applications where reduced out-gassing and/or high definition mechanical machining are required. Isofrax Board products are available in a wide range of sizes and thicknesses.

General characteristics

Isofrax Board products have the following outstanding characteristics:

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

Typical applications

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

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

Typical product Parameters

Typical chemical Analysis (fibre wt.%)

	120ZK	120LD
SiO ₂	70.0 – 80.0	70.0 – 80.0
MgO	>18.0 – 27.0	>18.0 – 27.0
Trace	< 4.0	< 4.0

ISOFRAX BOARD 120ZK & 120LD

Physical Properties

Colour	White/Tan	White/Tan
Melting Point	> 1500°C	> 1500°C
Product density	360 kg/m ³	270 kg/m ³
Modulus of Rupture	>500 (kPa)	>500 (kPa)
Use Limit*	1200 °C	1200 °C
Loss on ignition (wt.%)	<9.0%	<7.0%

Thermal conductivity (W/mK)

Mean temp.		
600°C	0.13	0.10
800°C	0.17	0.13
1000°C	0.21	0.15

Permanent Linear Shrinkage (%) 24 Hour Soak

1100°C	<4.0	<4.0
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*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.

Standardprogramm

Dicke	120ZK		120 LD		Sheets per carton		Sheets per pallet		Sheets per carton	
	Sheets per pallet		Sheet Dimensions		1000 x 610 mm		1250 x 1000 mm			
	✓	✓								
3 mm	✓	✓	32	704	32	352				
5 mm	✓	✓	20	440	20	220				
6 mm	✓	✓	16	352	16	176				
10 mm	✓	✓	10	220	10	110				
12 mm	✓	✓	8	176	8	88				
15 mm	✓	✓	6	132	6	66				
18 mm	✓	✓	5	110	5	55				
20 mm	✓	✓	5	110	5	55				
25 mm	✓	✓	4	88	4	44				
30 mm	✓	✓	3	68	3	34				
40 mm	✓	✓	2	44	2	22				
50 mm	✓	✓	2	44	2	22				
60 mm		✓	1	32	1	16				
75 mm		✓	1	22	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.