

PROMALIGHT® 240 - 240 FX

PROMALIGHT® -240 is a microporous thermal insulation board, made as a slab in a skin of glass cloth with very good thermal and mechanical properties.

PROMALIGHT®-240 FX is the same board sewn through using special thread to become a flexible board.



ADVANTAGES AND PROPERTIES

- Microporous thermal insulation materials show extremely low thermal conductivity values due to their pore size in the nano range, smaller than the mean free path length of the air molecules.
- This enhances many times the thermal insulation performances in comparison to other thermal insulation materials such as mineral wool, ceramic fibre and lightweight refractory bricks. For this reason, microporous materials are preferred for applications, where a large reduction in temperature is required within a limited space.

WORKING AND PROCESSING

PROMALIGHT® 240 and 240 FX can be cut using a sharp knife or sawn. The boards can be fixed in place with ALSIFLEX® glue 1000 or by mechanical means such as anchors, pins and clips.

HEALTH AND SAFETY

PROMALIGHT® consists of raw materials which are harmless with regard to working hygiene and not subjected to any classification. For detailed information see MSDS.



AREAS OF APPLICATION

- Industrial furnace constructions for ceramic kilns, metallurgy furnaces
- Petrochemical industry
- Laboratory and hobby kilns
- Thermal insulation in steel smelting and casting plants such as tundishes
- Non-ferrous industry especially aluminium electrolysis reduction cells
- Glass processing plants such as forehearth and feeder bowls
- Power plants
- Protection for electronic components such as measuring elements and safes
- Domestic appliances such as night storage heaters, boilers, cookers and stoves



TECHNICAL DATA

PRODUCT NAME	PROMALIGHT® 240	PROMALIGHT® 240 FX	
Colour	grey	grey	
Classification temperature:	core: 1000°	core: 1000°	°C
Shrinkage after 12h at 900°C	1,1	1,1	%
Bulk density ρ	200 to 280	200 to 280	kg/m ³
Cold compressive strength			
-maximum	2,8	2,8	MPa
- at 10% deformation	0,6	0,6	
Bending strength δ	0,15	0,15	MPa
Specific heat capacity	1,05	1,05	kJ/kgK
Thermal conductivity			
200°C	0,022	0,023	W/mK
400°C	0.026	0.026	W/mK
600°C	0.030	0.030	W/mK
800°C	0.037	0.037	W/mK
Chemical analysis			
SiO ₂	77,5	77,5	%
SiC ₂	20	20	%
CaO	2,5	2,5	%

STANDARD SIZES

Promat contains the right to change without notice the properties and values of all products. The given technical values are obtained in specific conditions and are average and indicative. In case of any doubt if these properties and/or values are matching the application requirements, please contact Promat for advise.

Minimum Length/Width:	400 mm
Maximum Length/Width:	1200 mm
Thickness:	Promalight 240 5 mm to 50 mm
	Promalight 240 FX 5 mm to 12 mm

