

## NEFALIT®

NEFALIT®-boards are rigid insulating materials based on mineral wool, woolastonite and calcium silicate fibres with mineral filling components. The boards are bound with both organic and inorganic binders. Due to this combination, the boards have high temperature resistance, low thermal conductivity and good electrical insulating properties. This material is asbestos-free and with its all-round properties it replaces previously used asbestos boards. The areas of application are numerous and not limited to the main application field of high temperature seals.

### ADVANTAGES AND PROPERTIES

- Thin, lightweight and rigid
- Smooth surface
- Can be shaped in wet condition
- Excellent machinability
- High temperature resistance
- Insensitive to thermal shocks
- High electrical insulation
- Low thermal conductivity
- Hardly wetted by molten metal
- Good acid resistance
- I.A.R.C. group 3-classification (NEFALIT® 1200)

### WORKING AND PROCESSING

NEFALIT® can be punched, cut, milled and drilled easily with conventional woodworking machinery with hard-metal-tipped tools. NEFALIT® boards

have the additional advantage that they can be shaped in wet condition, without breakage.

### SPECIAL QUALITIES

For roller conveyors, flat glass and sheet steel productions

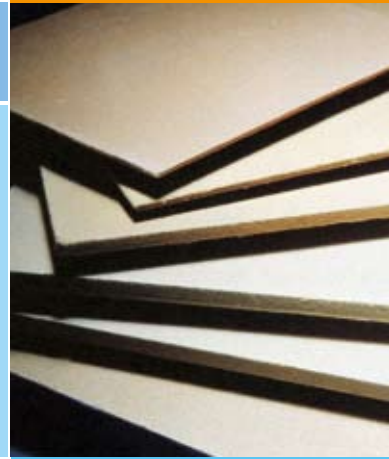
Special quantities are available on request

### ACCESSORIES

With ALSIFLEX® glue 1000, it can be bonded layer on layer or on other insulating materials, according to temperature demand. The bonding joint has to be executed as thinly as possible.

### AREAS OF APPLICATION

- As insulating and sealing material, especially as a substitute for previously used asbestos boards.
- High temperature sealings
- Carrier material for roller conveyors in metallurgy and in the glass industry
- Rear insulating layer in furnace construction as a barrier layer and for absorption of aggressive condensates
- Household appliances, heating systems and burners
- Protecting device and welding pad





## TECHNICAL DATA

Product name	NEFALIT® 1100	NEFALIT® 1200*	NEFALIT® 1200-paper*	
Colour	beige	blue	blue	
Classification temperature	1100	1100	1200	°C
Bulk density $\rho$	1100	1100	1000	kg/m <sup>3</sup>
Thermal conductivity $\lambda$ °C	0,12	0,12	-	W/mK at 400
Ignition loss at 800 °C	15	15	23	%
Tensile strength				
// fibres	5	5	5	N/mm <sup>2</sup>
⊥ fibres	4	4	4	N/mm <sup>2</sup>
Shrinkage na 24u (ASTM F3 6 method H)	1 (1000°C)	2,7 (1200°C)	4,7 (1200°C)	%
Compressibility 70 kg/m <sup>2</sup>	7	7	7	%
*Classified in group 3 (I.A.R.C.)				

Dimensional tolerances of standard boards:  
Lengths and widths: ± 5 %  
Thicknesses: ± 10 %

## 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 advice.



Dimensions	boards/ box	boxes/ pallet
<b>NEFALIT® 1100</b>		
1000 x 1000 x 2 mm	50	9
1000 x 1000 x 3 mm	35	9
1000 x 1000 x 4 mm	25	9
1000 x 1000 x 5 mm	20	9
1000 x 1000 x 6 mm	17	9
1000 x 1000 x 8 mm	13	9
1000 x 1000 x 10 mm	10	9
1000 x 1000 x 12 mm	9	9
<b>NEFALIT® 1200</b>		
1000 x 1000 x 2 mm	50	9
1000 x 1000 x 3 mm	35	9
1000 x 1000 x 4 mm	25	9
1000 x 1000 x 5 mm	20	9
1000 x 1000 x 6 mm	17	9
1000 x 1000 x 8 mm	13	9
1000 x 1000 x 10 mm	10	9
1000 x 1000 x 12 mm	9	9
<b>NEFALIT® 1200 PAPER</b>		
1000 x 100000 x 0,5 mm	5	
1000 x 100000 x 0,8 mm	5	
1000 x 100000 x 1 mm	5	