



Insulation boards

The insulation boards are manufactured from aqueous suspensions of refractory fibers using the vacuum-forming method. The precisely selected layout of binders allows for the use of a minimal amount of (non-toxic) organic elements. They are removed during the first annealing, from the temperature of approximately 250 °C. As a result the board becomes completely odorless and returns to the white color. In terms of the classification temperature, we manufacture two types of boards: 1260 °C and 1430 °C.

Characteristics:

- excellent homogeneity
- good mechanical resistance
- resistant to most chemicals
- excellent volume stabilization
- low apparent density
- stability in high temperatures
- resistant to sudden temperature changes
- can be used in direct contact with flames
- low heat accumulation ratio
- easy mechanical processing (cutting, drilling, milling)



Hard board

	Type: PT-2	PT-3
Classification temperature [°C]	1260	1430
Density kg/m ³	400	400
Use temperature [°C]		
short-term	1160	1350
long-term	1320	1500
Linear shrinkage %	Max. 3	Max. 3
Thermal conductivity [W/m K]		
300 °C	0.11	0.10
600 °C	0.14	0.13
800 °C	0.16	0.16
900 °C	0.19	0.19
Compressive strength [N/mm ²]	+0.15	+0.15
Chemical analysis of the fibers		
Al ₂ O ₃ +ZrO ₂ min. %	47	52
SiO ₂ max. %	54	46
Fe ₂ O ₃ max. %	0.3	0.2
Na ₂ O+K ₂ O max. %	0.5	0.4



Available dimensions of the insulation boards [mm]

Length	Width	Thickness
1000	1000	50
1000	500	50
1000	500	40
1000	500	30
1000	500	20



Application:

- lining of furnace vaults and walls
- lining of combustion chambers in boilers
- lining of boilers and water heaters
- insulation of smelters and glass furnaces
- dilatation, fire screens
- general purpose thermal barriers
- insulation of ceramic kiln cars
- lining of heaters
- repair and modernization of older types of furnaces
- insulation of channels, ducts
- insulation of the working part of hard ceramics, such as refractory bricks
- thermal insulation in various branches of industry

