HEAT RESISTANT MATERIAL FOR HEAT INSULATION BASED ON LIQUID GLASS

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The application of efficient heat-insulated materials provides decreasing heat losses into the atmosphere, the problem of saving power resources being solved to a certain extent.

Among polymeric materials the foaming materials have higher heat-insulated properties. But the largest part of them is applied within the temperature range from 100-150 °C.



Foaming material produced on the base of inorganic polymer is:

- Non toxic;
- Can be applied within the temperature range to 600 °C;
- Its density 328 kg/m³;
- Heat conductivity 0,0353 wt/mk;
- Breaking at the bending stress 0,465 mPa;
- Bursting at 10% compressive stress 0,331 MPa.





Block-shaped heat-insulated material is produced on the base of grain foamed granules and binder. The material can be applied as an efficient heat-insulated material for dwelling and industrial constructions, industrial equipment and pipelines, large capacity transport.