

POROTHERM 1000

Technical specification

Application temperature	°C	1000
Densities	kg/m ³	300 – 430
Thermal conductivity (at a medium temperature W/mK)	200 °C	0.023
	400 °C	0.028
	600 °C	0.034
	800 °C	0.042
Shrinkage at 1000 °C	%	0.6
Cold compressional strength	N/mm ²	1.3
Specific heat capacity	KJ/kg K	0.8
Compression (at 1 bar)	%	3.7
Formats (boards)	Length (mm)	1000
	Width (mm)	650
	Thickness (mm)	10-50
Colour		white or brown

POROTHERM 1000 is a microporous thermal insulating material with extremely low thermal conductivity figures, i.e. with very good thermal insulating properties.

POROTHERM 1000 can be used wherever a highly efficient but thin boundary between hot and cold is required. This is becoming increasingly relevant for insulation in refrigeration equipment too.

Application field:

Machinery, plant and industrial furnace construction, replacement for asbestos, electrical insulation, glass industry, house engineering, microwave devices, vacuum insulation, etc.

- (1) We are able to supply special formats and special thicknesses on request. We will be pleased to manufacture stampings, milled parts or cuttings according to your drawings.
- (2) The classification temperature is not to be equated with the maximum application temperature, in particular when physical conditions such as tensile or pressure loads are involved. For applications as high-temperature insulation, lower temperatures must always be applied. In these cases, our Engineering department will offer assistance and support.
- (3) Heat transmission calculations for this material can be requested from our Engineering department.

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Further information and advice on specific details of the products described can be obtained in writing from Techno-Physik Eng. GmbH (Germany). The TechnoPhysik Group is consistently running product development programmes and reserves the right to modify product specifications at any time without notice. The customer/user is thus always obliged to ensure that the material from Techno-Physik Eng. GmbH is suitable for his specific purposes. The specified values are average figures determined from current production and are intended only for information. Warranty claims cannot be derived from these figures. We recommend to test the material for your application.

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