POROTHERM 1000

Technical specification

Application temperature	°C	1000
Densities	kg/m^3	300 – 430
Thermal conductivity (at a medium temperature W/mK)	200 °C 400 °C 600 °C 800 °C	0.023 0.028 0.034 0.042
Shrinkage at 1000 °C	%	0.6
Cold compressional strength	N/mm2	1.3
Specific heat capacity	KJ/kg K	0.8
Compression (at 1 bar)	%	3.7
Formats (boards)	Length (mm) Width (mm) Thickness (mm)	1000 650 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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