

Pull

Rhenen

Pumica K

Insulation materials



Pumica is the brand name for ceramically-bonded Vermiculite plates, dishes and shapes that has many applications. Pumica is a high-temperature insulation with high fire resistance.

Vermiculite is the basic material for Pumica. This light, incombustible insulation grain is exfoliated at high temperatures (about 900°C) under controlled conditions. The product is mixed with various inorganic binding agents, pressed into the required shape and size and ceramically bonded in a furnace. This mica-like fire-resistant, acoustic and thermally insulating granular material is chemically neutral, does not contain asbestos or other fibres and is entirely environmentally friendly.

Technical specifications of Pumica K

	400	500	600	700
Density*				
Thermal conductivity	$\lambda_{10} = 0,11$ W/(mK)	$\lambda_{10} = 0,125$ W/(mK)	$\lambda_{10} = 0,14$ W/(mK)	$\lambda_{10} = 0,17$ W/(mK)
Pressure strength	0,8 N/mm ²	1,2 N/mm ²	1,9 N/mm ²	2,2 N/mm ²
Bending strength	0,2 N/mm ²			
Specific heat capacity	C=838 J/kgK	C=838 J/kgK	C=838 J/kgK	C=838 J/kgK
Maximum operating temperature	1100 °C	1100 °C	1100 °C	1100 °C
Melting point	about 1315 °C	about 1315 °C	about 1315 °C	about 1315 °C
Smoke index (NEN 6066)	0	0	0	0
Burning behaviour (NEN 6064)	incombustible	incombustible	incombustible	incombustible

* weights can vary $\pm 10\%$.

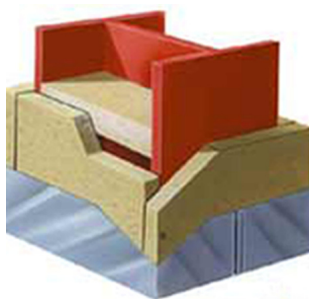
Applications of Pumica K

The product can be used for various purposes, including covering for floor or roof beams, column covering, covering of suspenders, tie rods and round columns, but it can also be used as insulation in heaters, boilers or fireplaces, for example.

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Thermal & Insulation

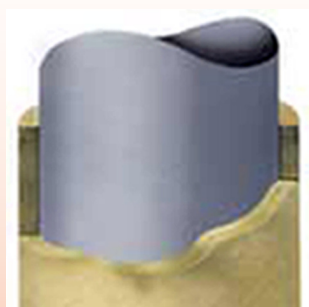


Finishing options for Pumica K

Pumica can be finished with one of the following attractive/chip-proof finishes: steel plate, blue plastering/ready to wallpaper, fine sanding or spack (spray), tiling, plywood/chipboard or technical/functional.



Pumice K delivery range	
Nominal width	500/ 600 mm
Nominal length	700/ 1000/ 1200 mm
Nominal thickness	12/ 14/ 16/ 18/ 20/ 25/ 30/ 35/ 40 -100 mm
Other sizes are available on request.	
Sizes of dishes and shapes on request. Custom specifications possible.	



Test reports

TNO: B.83.674 of December 1983

IBMB: 3429/ 3681 of October 1992

Firto: TE 4846/ 6811 of February 1984

UL: R 13200 of April 1988

Calculate insulation thickness

The required insulation thickness of Pumica K depends on the required fire-resistance in minutes, the permitted or calculated critical steel temperature as well as the ratio factor of the steel surface to the steel content (F/A factor). If required, we can calculate the required insulation thickness for you.



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