



MINER®

MADENCİLİK NAKLIYAT TİCARET LTD. ŞTİ.

Pumice Powder

Below are some of the technical specifications of micronised pumice powder:

COLOUR	LIGHT GREY
MOHS HARDNESS	6
PH	6,5-7
CHEMICAL REACTION	CHEMICAL RESISTANT EXCEPT FOR HF ACID
HUMIDITY	<1%
MELTING POINT	1240 C
SOUND TRANSMISSION LOSS	45-55 (DB)
WATER ABSORPTION	40-60 (WEIGHT BASIS)
POROSITY	45-90
DRY BULK DENSITY	400-600 GR/CM ³
HARMFUL MATERIALS	INERT
FIRE RESISTANCE	A1
SPECIFIC HEAT CAPACITY	0.24-0,26 KCAL/KG C
THERMAL CONDUCTIVITY	0.11-0,21 W/MK

ACIDIC PUMICE DOES NOT RESOLVE IN WATER, DOES NOT DECOMPOSE BY TIME AND DOES NOT CREATE CHEMICAL POLLUTANTS.

DOES NOT LET UNWANTED CHEMICAL REACTIONS, NON-TOXIC. HAS HIGH SPECIFIC SURFACE COMPARED TO ALTERNATIVE MATERIALS. HAS HIGH WATER HOLDING CAPACITY.



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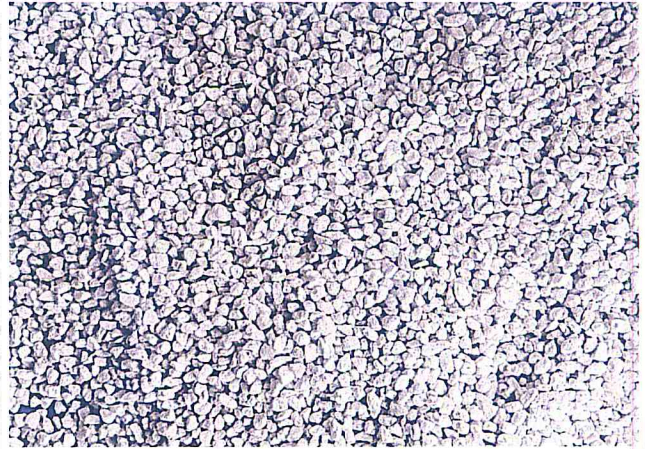


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Pumice is a very porous form of volcanic igneous rock formed by the rapid cooling and hardening of lava in volcanic eruptions. Pumice powder has very wide industrial applications. With porous structure, lightweightness, high isolation properties, extraordinary resistance to atmospheric conditions and high puzzolanic activity, it is one of the oldest naturel volcanic materials in use.

The most common type of pumice in use is Acidic Pumice which is white to light grey colour and has density from 0,2 gr/cm³ to 1,0 gr/cm³. Chemically, pumice is silica rich and has perfect glassy structure. The chemical composition of pumice is as below:



MAJOR ELEMENTS %

SiO ₂	65
Al ₂ O ₃	11,67
Fe ₂ O ₃	1,75
CaO	0,55
Na ₂ O	4,12
K ₂ O	4.1
MgO	0,15
TiO ₂	0,03
A.K.	3,63

Several porous materials are being used in chemical industry as chemical carriers. Lightweightness, high porosity and the high surface area of pumice powder and being inert chemically makes pumice the ideal chemical carrier. Pumice powder sizes from 1 micron to 4,000 microns are being used as chemical carriers in several industries.