EUROPOMICE
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PUMICE
FOR CONSTRUCTION

Lightweight aggregates
UNI EN 13055-1

COMPOSITION: NATURALLY EXTENDED ALVEOLAR MAGMATIC MINERAL

PUMICE is the result of the natural expansion of effusive magmatic mineral that has generated an alveolar product of remarkable lightness, with high porosity, great water retention, slow release of liquids and thermal and acoustic insulating properties.

FIELDS OF APPLICATION	
LIGHTWEIGHT, THERMO-INSULATING AND SOUNDPROOFING SCREEDS	SUBSTRATE INSULATION
SOUND-ABSORBING BARRIERS	LIGHTWEIGHT PANELS
THERMAL INSULATION	LIGHTWEIGHT FILLINGS
ROAD EMBANKMENTS	FLUES AND CHIMNEY
THERMO/SOUND INSULATING BLOCKS	INSULATING LAYERS
LIGHTWEIGHT PUMPABLE CONCRETE	SUBSTRATE FOR SPORTS FIELDS
ABSORBENT FOR LIQUIDS	

PHYSICAL, CHEMICAL AND FUNCTIONAL PROPERTIES

Bulk density: approx 740-810 kg/m^3 *
Dry density: approx 450-525 kg/m^3 *
Water absorption (WA24): approx 19% *
Granules density (S.S.A.): approx 1300 kg/m^3 *
Crushing resistance: approx 1.50 N/mm^2 *
Thermal conductivity λ: between 0.0872 and 0.1021 W/mK **
Thermal and acoustic insulation
Transpiration, Workability, Fire-resistant, Durability
Mineral containing no active limestone and no Free Crystalline Silica

AVERAGE CHEMICAL ANALYSIS of representative samples of the front quarry	
SiO_2	56,8 % ± 5 %
Al_2O_3	18,8 % ± 5 %
K_2O	8,0 % ± 5 %
Fe_2O_3	4,2 % ± 5 %
CaO	4,5 % ± 5 %
Na_2O	1,9 % ± 5 %
TiO_2	0,5 % ± 5 %
MgO	1,6 % ± 5 %
P_2O_5	0,1 % ± 5 %
MnO	0,1 % ± 5 %
P.F.	3,9 % ± 5 %
pH	7-8

LIQUID ABSORPTION

for 100 gr of Dried Pumice:

Water	approx. 60-70 gr
Lubricant oil	110 gr
Diesel fuel and Gasoline	80 gr

Imperial Measurements:
Liquid absorption for 0.132-0.154 lb. of Dried Pumice: approx. Water 0.22 lb. - Lubricant oil 0.24 lb. - Diesel fuel and Gasoline 0.18 lb.
Bulk density approx *46.20-50.57 lb/ft^3; Dry density approx 28.09-32.77 lb/ft^3; Granules density (S.S.A.) approx 81.16 lb/ft^3 Crushing resistance approx 0.22 ksi*

AVAILABLE TYPES	GRAIN SIZE	APPARENT DENSITY At quarry humidity	LOOSE BULK DENSITY Dry material
SAND ***	0 - 3 mm	820 - 880 Kg/m^3	500 - 600 Kg/m^3
GRIT	1 - 3 mm	700 - 760 Kg/m^3	350 - 430 Kg/m^3
GRIT	3 - 6 mm	660 - 740 Kg/m^3	350 - 430 Kg/m^3
GRIT	6 - 14 mm	550 - 670 Kg/m^3	350 - 430 Kg/m^3

IMPERIAL MEASUREMENTS:

AVAILABLE TYPES	GRAIN SIZE	APPARENT DENSITY At quarry humidity	LOOSE BULK DENSITY Dry material
SAND ***	6- US Mesh	51.19 - 54.93 lb/ft^3	31.21 - 37.46 lb/ft^3
GRIT	6 x 18 US Mesh	43.70 - 47.44 lb/ft^3	21.85 - 26.84 lb/ft^3
GRIT	1/4" x 6 US Mesh	41.20 - 46.20 lb/ft^3	21.85 - 26.84 lb/ft^3
GRIT	5/8"x1/4" US Mesh	44.34 - 41.82 lb/ft^3	21.85 - 26.84 lb/ft^3

AVAILABLE BULK, in BIG-BAGS of 1.5 m^3 (*53 ft^3*) and 2 m^3 (*71 ft^3*), in BAGS of 50 lt. (*11 gal*) on pallets of 36 bags and in BAGS of 33 lt. (*7.26 gal*) on pallets of 50 bags/each.

* Data refers to Pumice grain sizes 0-3, 3-6, 6-14
** Lab. certificate Certimac SQM_045_2024 and SQM_044_2024 of 27/03/2024
*** For details relating to Pumice Sand, consult the specific Technical Data Sheet

This mineral is a natural raw material. All data indicated above are average production values and do not provide any warranty.