

PUMICE FOR CONSTRUCTION

COMPOSITION: MAGMATIC CELL MINERAL NATURALLY EXTENDED

PUMICE is the result of natural extension of effusive magmatic mineral, which has generated an alveolar product of remarkable lightness, absolutely ecological, with high porosity, great water retention, slow release of liquids and great isolating properties.

APPLICATION FIELDS	
LIGHTWEIGHT ATTIC	CLS LIGHT PUMPABLE
THERMOINSULATING AND SOUNDPROOF ATTIC	THERMOINSULATING AND SOUNDPROOF BLOCKING
SOUNDPROOF BARRIER	LIGHTER PANELS
UNDERGROUND ISOLATION	UNDERGROUND FOR SPORTS FIELDS
ROAD EMBANKMENTS	LIGHT FILLINGS
SMOKEVENT AND CHIMNEY	WATER-ABSORBING
ISOLATING LAYERS	BIOBUILDING

PHYSICAL AND CHEMICAL PROPERTIES:

Heat conduction: $\lambda = 0,11 \text{ W/(mK)}$ ⁽¹⁾

Acoustic insulation

Transpiration

Excellent workability

Fire-resistant

Long durability

LIQUID ABSORPTION:

Water approx. 100 g/100 g Pumice

Lubricant 110 g/100 g Pumice

Gasoline 80 g/100 g Pumice

Petrol 80 g/100 g Pumice

Non-toxic product (Silica free)

MEDIUM CHEMICAL ANALYSIS

of representative samples of the front quarry

SiO ₂	62,5 %
Al ₂ O ₃	17,5 %
K ₂ O	9,5 %
Fe ₂ O ₃	2,6 %
CaO	2,5 %
Na ₂ O	2,2 %
TiO ₂	0,5 %
MgO	0,4 %
P.F.	2,3 %
pH	7-8

AVAILABLE TYPES	GRAIN SIZE	APPARENT DENSITY Material in a wet quarry	APPARENT DENSITY Dry material
SAND	0 - 3 mm	820 - 880 Kg/m ³	500 - 600 Kg/m ³
GRIT	2 - 4 mm	660 - 740 Kg/m ³	350 - 430 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	3 - 7 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
GRIT	7 - 14 mm	550 - 670 Kg/m ³	350 - 430 Kg/m ³
GRIT	12 - 25 mm	480 - 550 Kg/m ³	350 - 420 Kg/m ³

AVAILABLE UNPACKED, IN BAGS (BIG-BAGS) 1,8MC AND 1,5MC SIZE, IN 50LT BAGS PACKED ON PALLETS (36 bags on each pallet) AND IN 33LT BAGS PACKED ON PALLETS (50 bags on each pallet).

This mineral is a natural raw material. All data indicated above are therefore approximate and do not provide any warranty.

⁽¹⁾ Certificated by Politecnico of Torino n. 1447/04