

PUMICE FOR CONSTRUCTION

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 high thermal and acoustic insulating properties.

Being a natural volcanic inert, it is absolutely ecological, and therefore, is recommended and suitable for nursery gardening applications where it is already widely used. Pumice is also highly appreciated in the building and construction sector for its high hygroscopic and pozzolanic characteristics.

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
GREEN BUILDING	

PHYSICAL AND CHEMICAL PROPERTIES

Thermal conductivity $\lambda = 0,11 \text{ W/(mK)}$ ⁽¹⁾
Excellent sound insulation, transpiration, workability, fire-resistant, durability.

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

LIQUID ABSORPTION *

for 100 gr of Dried Pumice:

Water approx. 100 gr

Lubricant oil 110 gr

Diesel fuel and Gasoline 80 gr

* Imperial Measurements:

Liquid absorption for 0.22 lb. of Dried Pumice:

Water approx. 0.22 lb. - Lubricant oil 0.24 lb. -

Diesel fuel and Gasoline 0.18 lb.

AVERAGE 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

NON-TOXIC PRODUCT: Mineral containing no active limestone and no Free Crystalline Silica

AVAILABLE TYPES	PARTICLE SIZE DISTRIBUTION	APPARENT DENSITY At quarry humidity	LOOSE BULK DENSITY Dry material
SAND	0 - 3 mm	760 - 920 Kg/m ³	500 - 600 Kg/m ³
GRIT	1 - 3 mm	700 - 780 Kg/m ³	350 - 430 Kg/m ³
GRIT	3 - 6 mm	630 - 760 Kg/m ³	350 - 430 Kg/m ³
GRIT	6 - 14 mm	530 - 700 Kg/m ³	350 - 430 Kg/m ³

IMPERIAL MEASUREMENTS:

AVAILABLE TYPES	PARTICLE SIZE DISTRIBUTION	APPARENT DENSITY At quarry humidity	LOOSE BULK DENSITY Dry material
SAND	6- US Mesh	47.45 - 57.43 lb/ft ³	31.21 - 37.46 lb/ft ³
GRIT	6 x 18 US Mesh	43.70 - 48.69 lb/ft ³	21.85 - 26.84 lb/ft ³
GRIT	1/4" x 6 US Mesh	39.33 - 47.45 lb/ft ³	21.85 - 26.84 lb/ft ³
GRIT	5/8"x1/4" US Mesh	33.09 - 43.70 lb/ft ³	21.85 - 26.84 lb/ft ³

AVAILABLE BULK, in BIG-BAGS of 1,5 m³ (53 cu ft) and 2 m³ (71 cu ft), 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

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