

## DRIED PUMICE

**COMPOSTION:** NATURALLY EXPANDED AND KILN DRIED ALVEOLAR MAGMATIC MINERAL.

PUMICE is the result of the natural extension 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.

The advantage of having a naturally expanded lightweight product involves maintaining the open cell alveolar structure, a unique feature of the pumice extracted in the Tuscany and Lazio mining area. The subsequent drying enables a product to be obtained that is free from natural humidity and suitable for many fields of application.

FIELDS OF APPLICATIONS	
LIGHTWEIGHT INERT FOR MORTARS AND PREMIXED PRODUCTS	SUPPORT FOR CHEMICAL PRODUCTS
FILTRATION AND ABSORPTION OF INDUSTRIAL OILS AND LIQUIDS	SOFT ABRASIVES
HAND CLEANER PASTE	DENTISTRY

### PHYSICAL AND CHEMICAL PROPERTIES:

Thermal conductivity:  $\lambda = 0,11 \text{ W/(mK)}$  <sup>(1)</sup>

Excellent sound insulation

Transpiration

Excellent workability

Fire-resistant

Durability

Apparent density: 550 - 650 Kg/m<sup>3</sup>

Residual moisture: 2 %

### LIQUID ABSORPTION \*

for 100 or 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.

### MEDIUM CHEMICAL ANALYSIS of representative samples of the front quarry

SiO <sub>2</sub>	62,5 %
Al <sub>2</sub> O <sub>3</sub>	17,5 %
K <sub>2</sub> O	9,5 %
Fe <sub>2</sub> O <sub>3</sub>	2,6 %
CaO	2,5 %
Na <sub>2</sub> O	2,2 %
TiO <sub>2</sub>	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

### GRAIN SIZE ANALYSIS:

TYPOLOGY OF DRIED PUMICE <sup>(2)</sup>			
International System of Units		Imperial Measurements	
Particle size distribution	SPECIFIC WEIGHT	Particle size distribution	SPECIFIC WEIGHT
0 - 100 $\mu\text{m}$	800 - 950 kg/m <sup>3</sup>	140-	49.94 - 59.31 lb/ft <sup>3</sup>
100 - 850 $\mu\text{m}$	750 - 800 kg/m <sup>3</sup>	20 x 140	46.82 - 49.94 lb/ft <sup>3</sup>
850 - 3.000 $\mu\text{m}$	500 - 550 kg/m <sup>3</sup>	7 x 20	31.21 - 34.34 lb/ft <sup>3</sup>

AVAILABLE BULK, in BIG-BAGS of 1200 kg (2645 lb/each) and 1000 kg (2204 lb/each), in BAGS of 12 kg (26.46 lb) on pallets of 83 bags, in BAGS of 25 kg (55.12 lb) on pallets of 50 bags and in BAGS of 20 kg (44 lb) 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.*

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

<sup>(2)</sup> The specific weight is indicative and is referring to average values in batches of industrial production. Possible variations are a result of potential phenomena of segregation between the fine and gross parts.