# MICRONIZED PUMICE 0-20 µm

**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 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 kiln drying and screening enables a product, DRIED PUMICE, to be obtained that is free from natural humidity and suitable for many fields of application.

| FIELDS OF APPLICATIONS | |
|---|---|
| FOLIAR TREATMENT TO DEFENSE AGAINST INSECTS AND PATHOGENS | SUPPORT FOR CHEMICAL PRODUCTS |
| FILTRATION AND ABSORBATION OF INDUSTIAL OILS AND LIQUIDS | SOFT ABRASIVES |
| THERMAL INSULATION AND DEHUMIDIFYING PLASTERS | PAINTS AND COATINGS |
| HAND CLEANER PASTE | DENTISTRY |

**PHYSICAL AND CHEMICAL PROPERTIES:**
Thermal conductivity: λ = 0,11 W/(mK) (1)
Acoustic and thermal insulation
Transpiration
Excellent workability
Fire-resistant
Durability
Apparent density: 800 - 900 Kg/$m^3$
Residual moisture: < 2 %
Residue greater than 20 µm: 2,5 %

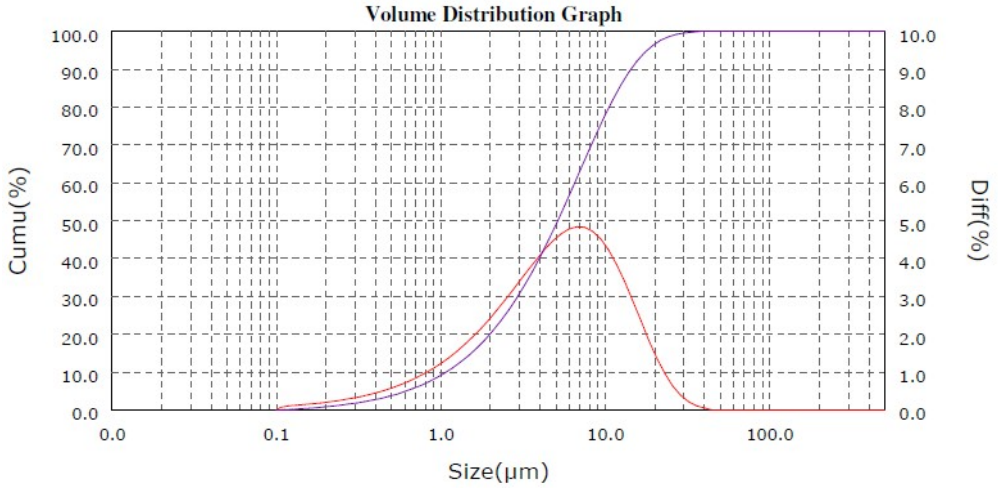
**LIQUID ABSORPTION**
for 100 gr of dried Pumice:

| | |
|---|---|
| Water | approx. 100 gr |
| Lubricant oil | 110 gr |
| Diesel fuel and Gasoline | 80 gr |

| MEDIUM 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 |

Mineral containing no active limestone and no Free Crystalline Silica

**GRAIN SIZE CURVE:**




(1) Certificated by Politecnico of Torino n. 1447/04
(2) 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.

AVAILABLE BULK, in BIG-BAGS of 1000 kg (2205 *lb/each*), in BAGS of 20 kg (44 lb)/each
STORAGE: store the product in a sheltered and dry place

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

***Imperial Measurements:***

*Grain size 635- US Mesh.*

*Apparent density 49.94-56.19 lb/ft$^3$.*

*Residue greater than 635 US Mesh:2,5%.*

*Liquid absorption for 0.22 lb. of Dried Pumice: approx Water 0.22 lb.-Lubricant oil 0.24 lb.-Diesel fuel and Gasoline 0.18 lb.*