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.

PHYSICAL AND CHEMICAL PROPERTIES

Thermal conductivity $\lambda = 0.11$ W/(mK) \(^{(1)}\)
Excellent sound insulation, transpiration, workability, fire-resistant, durability.

\(^{(1)}\) Certified 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.

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

FIELD 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

AVAILABLE TYPES

<table>
<thead>
<tr>
<th>PARTICLE SIZE DISTRIBUTION</th>
<th>APPARENT DENSITY At quarry humidity</th>
<th>LOOSE BULK DENSITY Dry material</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAND 0 - 3 mm</td>
<td>760 - 920 Kg/m$^3$</td>
<td>500 - 600 Kg/m$^3$</td>
</tr>
<tr>
<td>GRIT 1 - 3 mm</td>
<td>700 - 780 Kg/m$^3$</td>
<td>350 - 430 Kg/m$^3$</td>
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<tr>
<td>GRIT 3 - 6 mm</td>
<td>630 - 760 Kg/m$^3$</td>
<td>350 - 430 Kg/m$^3$</td>
</tr>
<tr>
<td>GRIT 6 - 14 mm</td>
<td>530 - 700 Kg/m$^3$</td>
<td>350 - 430 Kg/m$^3$</td>
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</tbody>
</table>

IMPERIAL MEASUREMENTS:

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</thead>
<tbody>
<tr>
<td>SAND 6&quot; - 14 US Mesh</td>
<td>47.45 - 57.43 lb/ft$^3$</td>
<td>31.21 - 37.46 lb/ft$^3$</td>
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<tr>
<td>GRIT 6 x 18 US Mesh</td>
<td>43.70 - 48.69 lb/ft$^3$</td>
<td>21.85 - 26.84 lb/ft$^3$</td>
</tr>
<tr>
<td>GRIT 1/4&quot; x 6 US Mesh</td>
<td>39.33 - 47.45 lb/ft$^3$</td>
<td>21.85 - 26.84 lb/ft$^3$</td>
</tr>
<tr>
<td>GRIT 5/8&quot; x 1/4&quot; US Mesh</td>
<td>33.09 - 43.70 lb/ft$^3$</td>
<td>21.85 - 26.84 lb/ft$^3$</td>
</tr>
</tbody>
</table>

AVAILABLE BULK, in BIG-BAGS of 1,5 m$^3$ (53 cu ft) and 2 m$^3$ (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.