

VOLCANIC LAPILLUS FOR NURSERY GARDENING

COMPOSITION: OPEN CELLS ALVEOLAR LAPILLUS

Effusive magmatic mineral (*Vulsini Volcanite* from the Pleistocene period) naturally calcined at high temperature, porous, insulating and lightweight.

It is a natural volcanic inert, ready-to-use, easy to apply, free from toxic and hazardous substances and from weed seeds. Volcanic Lapillus contributes to form lawns which can be used very intensively (up to 500 hours/year).

LAPILLUS

- It is a finished product, soft textured, free from toxic or dangerous substances and weed seeds.
- It contributes to form frequently usable lawn (up to 500 hours/year).

IDEAL FOR:

- Draining substrates for sports fields (soccer, tennis, etc.)
- Stabilized drainage for clay court surfaces
- Root development substrates
- Mulching
- Preparing growing media
- Offground crops
- Improvement of soil characteristics
- Mineral layer for biofiltration air-water
- Drainages
- Soil remineralization
- Roof gardens and grass parking lots

PHYSICAL AND CHEMICAL PROPERTIES:

- Total porosity: approx 65% V/V *
- Air volume pF1: approx 45-50% V/V *
- Water storage (pF0.7): approx 15-20% V/V *
- Water availability (pF0.7-pF4.2): approx 9-18% V/V *
- pH: 7-8
- C.E.C.: approx 18 mEq / 100g (approx 18 mEq/0.22 lb.)
- Active limestone free
- Non-toxic product (Silica Free)

* Data refers to grain sizes 3-5, 5-10, 10-16 mm
(4 x 6 US Mesh - 3/8" x 4 US Mesh - 5/8"x3/8" US Mesh)

FUNCTIONAL PROPERTIES:

Material particularly recommended for the realization of drainages, ideal for lawns in sport facilities, for all building techniques. Complying with:

- ex DIN standards in all variations
- STRI standards
- Suitable for USGA
- Drainage purposes, reinforced and vertical drainage

MEDIUM CHEMICAL ANALYSIS of representative samples of the front quarry	
SiO ₂	56 %
Al ₂ O ₃	16,5 %
K ₂ O	4,9 %
Fe ₂ O ₃	6,5 %
CaO	8,8 %
Na ₂ O	2,2 %
TiO ₂	0,8 %
MgO	3,1 %
P.F.	1,2 %
pH	7-8



AVAILABLE TYPES	GRAIN SIZE	APPARENT DENSITY Material at wet humidity	SATURATION DENSITY (m.s.+ water pF0,7)
SAND **	0 - 3 mm	950 - 1150 Kg/m ³	1800 - 1850 Kg/m ³
GRANULES	3 - 5 mm	850 - 1050 Kg/m ³	1100 - 1150 Kg/m ³
GRANULES	5 - 10 mm	830 - 1000 Kg/m ³	1150 - 1200 Kg/m ³
GRANULES	10 - 16 mm	760 - 1000 Kg/m ³	1100 - 1150 Kg/m ³
GRAVEL	20 - 70 mm	750 - 920 Kg/m ³	-

IMPERIAL MEASUREMENTS:

AVAILABLE TYPES	GRAIN SIZE	APPARENT DENSITY Material at quarry humidity	SATURATION DENSITY (m.s.+ water pF0,7)
SAND **	6- US Mesh	59.31 - 71.79 lb/ft ³	112.37 - 115.49 lb/ft ³
GRANULES	4 x 6 US Mesh	53.06 - 65.55 lb/ft ³	68.67 - 71.79 lb/ft ³
GRANULES	3/8" x 4 US Mesh	51.82 - 62.43 lb/ft ³	71.79 - 74.91 lb/ft ³
GRANULES	5/8"x3/8" US Mesh	47.45 - 62.43 lb/ft ³	68.67 - 71.79 lb/ft ³
GRAVEL	+1" US Mesh	46.82 - 57.43 lb/ft ³	-

** For Lapillus Sand data, consult the specific Technical Data Sheet

AVAILABLE BULK, IN BAGS (BIG-BAGS) 1.5 m³ (53 ft³) SIZE AND IN 33LT (7.26 gal) BAGS PACKED ON PALLETS (50 bags/each) **

The corresponding Imperial Measurements are shown in brackets.

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