

## VOLCANIC LAPILLUS SAND

### SOIL IMPROVER VOLCANIC ROCK

#### COMPOSITION: OPEN CELLS ALVEOLAR LAPILLUS.

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

Lapillus is a finished product, soft textured, free from toxic or dangerous substances and weed seeds.

#### IDEAL FOR:

- Soil re-mineralisation
- Growing substrates for roots
- Preparation of growing media
- Improvement of soil characteristics

#### PHYSICAL AND CHEMICAL PROPERTIES:

- Particle size: 0-3 mm. (6- US Mesh)
- Total porosity: approx 50% V/V
- Air volume pF1: approx 6% V/V
- Water storage (pF0.7): approx 50% V/V
- Water availability (pF0.7- pF4.2): approx 45% V/V
- pH: 7-8
- C.E.C. (Cation Exchange Capacity): approx. 18 mEq/100g  
*Imperial Measurements: approx. 18 mEq/0.22 lb.*
- Contains no active limestone and no Free Crystalline Silica (non-toxic product).
- Chemical composition: see table below



#### FUNCTIONAL PROPERTIES:

Material particularly recommended for RE-MINERALIZING soils by providing NON-LEASHABLE mineral elements which, with the help of microorganisms, are gradually released and made available for the plants and the microorganisms themselves.

Using Volcanic Lapillus Sand we achieve the following objectives:

- Revitalize microbial activity
- Stimulate the development of root systems
- Regenerate soil organic substance

#### SOIL ANENDMENT METHOD:

- Distribution in open field
- Distribution along the rows
- Mixing with manure
- Mixing with compost

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

VOLCANIC LAPILLUS TYPE	GRAIN SIZE	APPARENT DENSITY Material in a wet quarry	SATURATION DENSITY (m.s.+ water pF0,7)
SAND	0 - 3 mm 6- US Mesh	950 - 1,150 Kg/m <sup>3</sup> 59.31 - 71.79 lb/ft <sup>3</sup>	1,800 - 1,850 Kg/m <sup>3</sup> 112.37 - 115.49 lb/ft <sup>3</sup>

AVAILABLE BULK, IN BAGS (BIG-BAGS) 1,5 m<sup>3</sup> SIZE (53 cu ft) AND IN 33 L (7.26 gal) BAGS PACKED ON PALLETS (45 bags/each)

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