PUMICE
FOR NURSERY GARDENING

COMPOSITION: MAGMATIC CELL MINERAL NATURALLY EXTENDED

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 thermal and acoustic insulating properties.

Being a natural volcanic inert, it is recommended and suitable for nursery gardening applications where it is already widely used.

PHYSICAL AND CHEMICAL PROPERTIES:

- Total porosity: approx 80-85% V/V *
- Air volume pF1: approx 45-55% V/V *
- Water storage (pF0.7): approx 30-35% V/V *
- Water availability (pF0.7-pF4.2): approx 12-28% V/V *
- Liquid absorption: approx 60-70 gr of water /100 gr of Dried Pumice
- pH: 7-8
- C.E.C.: approx. 30 mEq/100g
- Contains no active limestone and free Crystalline Silica
- Chemical composition: see the attached table

MEDIUM CHEMICAL ANALYSIS of representative samples of the front quarry	
SiO_2	62,5 %
Al_2O_3	17,5 %
K_2O	9,5 %
Fe_2O_3	2,6 %
CaO	2,5 %
Na_2O	2,2 %
TiO_2	0,5 %
MgO	0,4 %
P.F.	2,3 %
pH	7 - 8

Imperial Measurements:

Liquid absorption: approx. 0.132-0.154 lb of water / 0.22 lb of Dried Pumice

C.E.C.: approx. 30 milliequivalents / 0.22 lb

FUNCTIONAL PROPERTIES:

Slow responding, naturally light, ideal and effective in:

- Substrate for roots (sowing, azaleas, transplanting, cultures outside the ground and hydro culture).
- Preparation of growing media: universal and specific (annual plants, acidophil plants, succulent plants, houseplants, turf, etc.) whether for pot plants or for the transplanting into the ground; professional growing media or botanical gardening outside and for protected cultures.
- Improvement of soil characteristics
- Mulching
- Hydroponics
- Cultures outside the ground
- Drainage
- Thermal insulation

AVAILABLE TYPES	GRAIN SIZE	APPARENT DENSITY At quarry humidity	LOOSE BULK DENSITY Dry material	SATURATION DENSITY (m.s.+ water pF0,7)
SAND **	0 - 3 mm	820 - 880 Kg/m^3	500 - 600 Kg/m^3	1500 - 1550 Kg/m^3
GRIT	1 - 3 mm	700 - 760 Kg/m^3	430 - 530 Kg/m^3	-
GRIT	2 - 4 mm	660 - 740 Kg/m^3	430 - 530 Kg/m^3	-
GRIT	3 - 6 mm	660 - 740 Kg/m^3	430 - 530 Kg/m^3	-
GRIT	3 - 7 mm	660 - 740 Kg/m^3	430 - 530 Kg/m^3	850 - 900 Kg/m^3
GRIT	6 - 14 mm	550 - 670 Kg/m^3	350 - 440 Kg/m^3	
GRIT	7 - 14 mm	550 - 670 Kg/m^3	350 - 440 Kg/m^3	750 - 800 Kg/m^3
GRIT	12 - 20 mm	480 - 550 Kg/m^3	350 - 440 Kg/m^3	

IMPERIAL MEASUREMENTS:

AVAILABLE TYPES	GRAIN SIZE	APPARENT DENSITY At quarry humidity	LOOSE BULK DENSITY Dry material	SATURATION DENSITY (m.s.+ water pF0,7)
SAND **	6- US Mesh	51.19 - 54.94 lb/ft^3	31.21 - 37.46 lb/ft^3	93.64 - 96.76 lb/ft^3
GRIT	6 x 18 US Mesh	43.70 - 47.45 lb/ft^3	26.84 - 33.09 lb/ft^3	-
GRIT	5 x 10 US Mesh	41.20 - 46.20 lb/ft^3	26.84 - 33.09 lb/ft^3	-
GRIT	1/4" x 6 US Mesh	41.20 - 46.20 lb/ft^3	26.84 - 33.09 lb/ft^3	-
GRIT	5/16" x 6 US Mesh	41.20 - 46.20 lb/ft^3	26.84 - 33.09 lb/ft^3	53.06 - 56.19 lb/ft^3
GRIT	5/8"x1/4" US Mesh	34.34 - 41.83 lb/ft^3	21.85 - 27.47 lb/ft^3	
GRIT	5/8"x5/16"US Mesh	34.34 - 41.83 lb/ft^3	21.85 - 27.47 lb/ft^3	46.82 - 49.94 lb/ft^3
GRIT	3.4"x1/2" US Mesh	29.97 - 34.34 lb/ft^3	21.85 - 27.47 lb/ft^3	

AVAILABLE BULK, IN BAGS (BIG-BAGS) 2 MC, IN 50LT BAGS PACKED ON PALLETS (36 bags on each pallet) **

* Data refers to grain sizes 3-7 mm, 7-14 mm (5/16" x 6 US Mesh, 5/8"x5/16"US Mesh)
** For Pumice Sand data, consult the specific Technical Data Sheet

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