BVU SUBSTRATE

The result of the investigations carried out by **BURÉS PROFESIONAL, S.A.,** is a substrate suitable for multiple uses thanks to itseven behaviour concerning its water retentions capacity and aeration.

For years only traditional materials, such as forest soil or peat, have been available in the market. Now an alternative had been found thanks to the different mixtures that were studied to unite all the desirable properties in one polyvalent substrate.

substrate composition

The mixture of the **BVU** substrate includes *Sphagnum* peat, **ECOBOSC** and volcanic soil.

ECOBOSC is a completely natural product made 100% from vegetal materials, which are selected, crushed and then undergo a careful aerobic composting process.

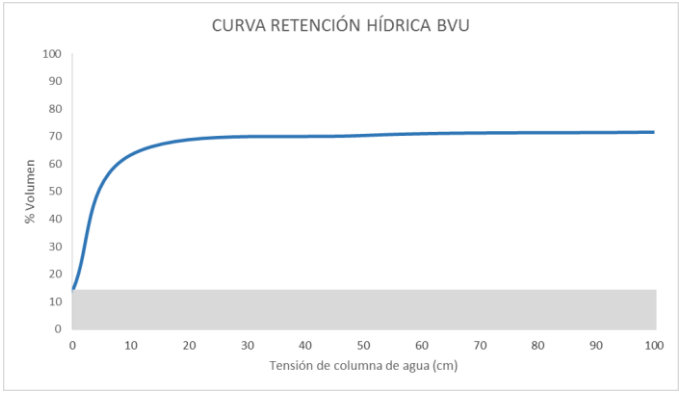
Some of the main components of **ECOBOSC** are pine bark, smashed pruning and leaf litter, amongst which pine bark stands as the basic material of the mixture.

The peat is an organic vegetal material that is formed in cold, water-saturated spots. It mostly consists on fibbers of *Spaghnum* moss that piled up for centuries in the water. Due to its long-term formation, the degradation has been very slow and therefore the peat maintains its vegetal structure. That brings very interesting properties to the substrate, as its low salts content, low density and, specially, its water retention capacity.

Volcanic puzolana is a natural inorganic material, not changeable by microorganisms, which holds the structure of the substrate for long time. The main aim of its use is improving drainage and maintaining the aeration of the roots.

substrate characteristics

BVT is a stable and perfectly adventitious seeds-free, which allows for farming without risk of fermentation or other phenomena due to "nitrogen immobilization".



The whole producing processes, as well as the final product, is under our accurate quality controls certified by "Normas" ISO-9001 and 14001, with the aim of guaranteeing the satisfaction of our clients as well as a deep respect towards the environment as in all our activities.

Given that the physical properties of a substrate are the ones determining its usefulness, the aim of the **BVU** investigations was to find the optimal ones for ornamental plant growth in containers.

As is shown on the table below, the **BVU** is a substrate with a high porosity percentage, which makes it suitable for most plants.

PARAMETER	UNIT	VALUE
HUMIDITY	% m/m	38-42
ORGANIC MATTER	% s.m.s.	47-60
pH	-.	6,5-7
APARENT DENSITY	g/l	300-400
CONDUCTIVITY	µs/cm	160-230
C/N RELATION	-	~30
TOTAL POROUS SPACE	%	85
AIR	%	31-35
EASILY ASSIMILABLE WATER	%	14-19
RESERVE WATER	%	4-6
DIFFICULT TO ASSIMILATE WATER	%	25-30

Water retention is closet to the idea value, and the aeration percentage is 31-35%, the ideal limits.

The substrate includes a fertilizer for the first weeks of cultivation.

aplications

The **BVU** substrate is designed for forced growth in nurseries, so it high frequency catering is possible.

Thanks to its low salinity, it can be fertilized according to the plants' needs. Several trials both in laboratory and commercial nurseries have shown a very fast plant growth.

The **BVU** is a polyvalent substrate which can be used successfully with most cultivation. It is specially recommended for:

- Flower or seasonal plants: Petunia, *Tagetes*, *Dianthus*, chrysanthemum and geraniums.

- Suitable for decorative outdoor plants as well as any other outdoor vegetation, such as bushes (rosebay, *Euonymus, Pyracantha…*) y conifer (pine, cypress, *Thuja..*)

On the outdoor cultivation special care must be put so that the substrate doesn't loose too much humidity.

BVU is served with dump truck.

The material is Reddy for its direct use: no special operation is needed, such as unloading, mixing…, which saves both time and workforce.

The product is served within short time and, therefore, there's no need for long-term planning nor having large stocks, allowing for more time to be dedicated to the Business and the nursery.