



PINE BARK (ROLDÓ): Peat-free growing media

Pine bark is a material traditionally used in growing-media because of its excellent physical properties.

The bark is selected, shredded and sieved in **BURÉS PROFESIONAL S.A.**, and it then undergoes an aerobic composting process.

This way we obtain a stable and weed-free product, ready to use and without fermentation or nitrogen immobilization phenomena risk.

The entire manufacturing process and the final product undergo rigorous quality processes certified by ISO-9001 and 14001, in order to ensure customer satisfaction and respect for the environment in all our activities.

properties

A remarkable feature of the product is its slightly acidic pH, an attribute usually desirable in substrates for acidophilic plants (those that need low pH for proper nutrition).

The electrical conductivity is very low, and therefore the product is used in mixtures for salinity sensitive species cultivation.



As expected, there is a high percentage of organic matter, with a very high degree of stability since it is of 100% vegetal origin.

PARAMETER	UNITS	VALUES
MOISTURE CONTENT	% m/m.	50-60
ELECTRICAL CONDUCTIVITY	dS/m	0,22
pH	-	5,5-6,5
ORGANIC MATTER	% a.d.m	80-90
ORGANIC NITROGEN	% a.d.m	0,85
AMMONIA NITROGEN	% a.d.m	0,05
AVAILABLE PHOSPHORUS	% P ₂ O ₅	<0,3
AVAILABLE POTASSIUM	%K ₂ O	0,4
SOLUBLE MAGNESIUM	%MgO	0,26
AVAILABLE CALCIUM	%CaO	3,0
IRON	% a.d.m	0,3-0,5
C/N RATIO	-	~50
HUMIC ACIDS	% a.d.m	4
FULVIC ACIDS	% a.d.m	1,9
CHLORIDE	ppm	188
C.E.C	Meq/100 gr	68,1

High cation-exchange capacity (C.E.C) suggests the ability of **ROLDÓ** to act as a reservoir of nutrients and as an improver of the action of fertilizers.

Physically, **ROLDÓ** is a light material with a very high porosity, which provides a good ratio between air content and easily available water.

Composted pine bark is recommended to improve drainage in growing-media mixes thanks to its distribution of different particles sizes.

Particle-size distribution

Particle diameter	% a.d.m	Accumul.
<0,5 mm	1,65	12,26
0,5-1mm	21,12	20,52
1-2 mm	27,66	29,08
2-4 mm	27,54	44,66
4-8 mm	14,52	66,03
8-10 mm	3,23	91,35
10-14 mm	4,28	96,61
14-18 mm	0	99,74
>18 mm	0	100,00

PARAMETER	UNITS	VALUES
APPARENT DENSITY	g/L	320
TOTAL PORE SPACE	%	85,25
AIR CONTENT	%	37,61
EASILY AVAILABLE WATER	% a.d.m	16,98
BUFFERING CAPACITY	%	3,3
NON AVAILABLE WATER	%	27,64

In short, **ROLDÓ** has very good qualities, which are enhanced by composting.

applications

Composted **ROLDÓ** is a suitable product for blending with other materials in growing media, improving their air content and water holding capacity.

Well aerated substrates are appropriate for plants that refuse water excess in the roots, such as conifers (*Juniperus*, *Taxus*, *Picea* ...) and plants of Atlantic origin.

In all cases, it is necessary to carry out a good watering and fertilizing program suited to each species.

Composted **ROLDÓ** can also be used in agriculture. Mixed in the soil, it acts as an organic amendment, aerating the soil and providing organic matter. Besides, it has a long-term effect due to the stability provided by the vegetal origin of the composting process.

In some cases it can also be used to make seedbeds for horticultural crops.

Applied superficially on the soil, composted **ROLDÓ** can be used as mulch to protect crops from climate changes and lack of rain.

