



**CaRBOLIVA**

biocarbón sostenible

# Olive Pulp Charcoal:


## Product Technical Sheet




### 1. Description


Carboliva is an energy services company that has had its plant within the Acesur-Coosur facilities in Puente del Obispo (Jaén) since 2018. Using a pyrolytic oven, it transforms the biomass that Coosur delivers from its olive groves into steam for the process of extracting pomace oil and at the same time produces some five thousand tons per year of COAL FROM PULP AND OLIVE STONE.

### 2. Uses for Charcoal

 **Coal for barbecues.** This charcoal does not smell or smoke and its briquettes last between three and four hours on the barbecue. Its calorific value is around 6,000 kcal/kg (25.13 Megajoules) and it has a humidity of around 10%.

 **Carbon Abatement:** Efforts to control CO<sup>2</sup> emissions into the atmosphere will also have to be based on introducing significant amounts of carbon into the ground, ensuring that they remain there for hundreds or thousands of years. The proportion of H/C of Olive Stone Charcoal, allows it to be qualified as a carbon abatement method with maximum guarantee.

Recognized by the IPCC (UN Intergovernmental Panel for the Study of Climate Change) as a negative carbon technology suitable for stable organic carbon sequestration.

 **Biochar:** Charcoal has been used for hundreds of years to improve the carbon content of degraded soil (terra preta). Its porosity allows it to store more water than its own weight as well as nutrients and microorganisms that help the plant in extreme situations.

Its use is recommended to regenerate and improve ground fertility and health. It is also ideal for improving composting processes and the quality of the compost. Olive pulp coal can also be used in the decontamination of water and soil.



The application of Biochar provides the following benefits:

- Improved water and nutrient retention capacity.
- Provides an excellent habitat to be colonized by fungi and beneficial microorganisms for plant development and health.
- Reduces the leaching of nutrients into the ground and during composting processes.
- Inhibits ground toxicity: heavy metals and toxic organic compounds.
- Reduces the presence of organic and inorganic contaminants in the water.



## 3. Especificaciones

### 3.1. Propiedades fisicoquímicas

ORGANIC OLIVE BONE CHARCOAL	
CHEMICAL NAME	BIOCHAR
MOISTURE CONTENT	8 - 12 %
ASH CONTENT	500 - 600 Kg/m <sup>3</sup>
DENSITY	20 - 25 %
VOLATILE MATTER CONTENT	15 - 20 % APROX.
FIXED CARBON CONTENT	55 - 60 %
GRANULOMETRY	50% GRANULATE / 50% SMALLER SIEVE 4mm
HEATING POWER	5.500 - 6.000 Kcal/Kilo WITH 5% MARGIN
COMPOSITION	PULP AND SKIN OF CARBONIZED OLIVES IN CONTINUOUS ROTARY OVEN
ORGANOLEPTIC CHARACTERISTICS	APPEARANCE: BLACK COLOR, WITHOUT AROMA OR TASTE
APPROXIMATE DURATION IN BARBECUE	3 HOURS, AT + 100 °C
CONSERVATION AND EXPIRY	STORE IN A DRY PLACE. DOES NOT EXPIRE. AVOID DRAFTS
PACKAGING FORMAT	BIG BAG OF 1,000-1,100 KG.

## 4. Security

Biochar is a safe product, but when it has very low levels of humidity it can release small particles during handling that could cause irritation to the respiratory tract. To avoid this, it is recommended to moisten it slightly before handling and avoid inhalation or use a suitable mask. Biochar can form small "braziers" when exposed to drafts, heat, or an ignition source. Biochar can emit CO when burned and should never be burned indoors.

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