



**CaRBOLIVA**

biocarbón sostenible

# Olive Bone Charcoal:





## Product Technical Sheet

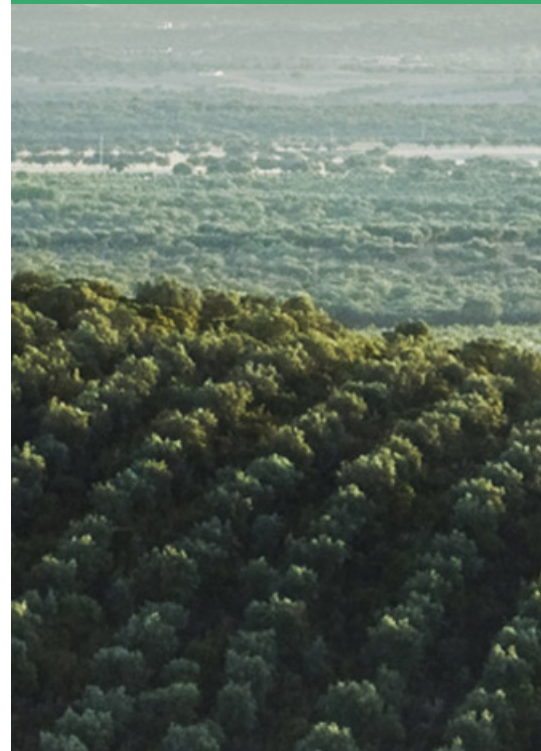



### 1. Description

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 of Charcoal

-  **Coal for Barbecues.** This charcoal does not smell or produce smoke and its briquettes last between three and four hours on the barbecue. Its calorific value is around 8,000 kcal/kg (33.5 Mega joules), it has less than 5% ash and a humidity of 8-12.
-  **Activated Carbon:** Olive stone coal is a good substitute for coconut shell carbon that is imported from Asia. The European Parliament has approved a ban on importing charcoal produced in countries suffering from deforestation.
-  **Green steel:** Due to its high fixed carbon content and its less than 5% ash content, olive stone coal is highly suitable for manufacturing steel with a low carbon footprint, which is increasingly required by various industries, including the automotive among others.
-  **Biochar:** Charcoal has been used for hundreds of years to improve the coal content of degraded soil (terra preta). Its porosity allows it to store more than its own weight of water as well as nutrients and microorganisms that help the plant in extreme situations.



 **Coal 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.



## 3. Specifications

### 3.1. Physicochemical properties

ORGANIC OLIVE BONE CHARCOAL	
CHEMICAL NAME	BIOCHAR
MOISTURE CONTENT	8-12 % MAX.
ASH CONTENT	3 - 5 %
DENSITY	400 - 500 Kg/m <sup>3</sup>
VOLATILE MATTER CONTENT	15 - 20 % APROX.
FIXED CARBON CONTENT	75 - 80 %
GRANULOMETRY	SIEVE 2mm: 30% SIEVE 3mm: 35% SIEVE 4mm: 35%
HEATING POWER	7500-8000 Kcal/Kilo WITH 5% MARGIN
COMPOSITION	CLEAN AND DRY OLIVE STONE CARBONIZED IN CONTINUOUS ROTARY OVEN
ORGANOLEPTIC CHARACTERISTICS	APPEARANCE: BLACK COLOR, WITHOUT AROMA OR TASTE
APPROXIMATE DURATION IN BARBECUE	4 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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