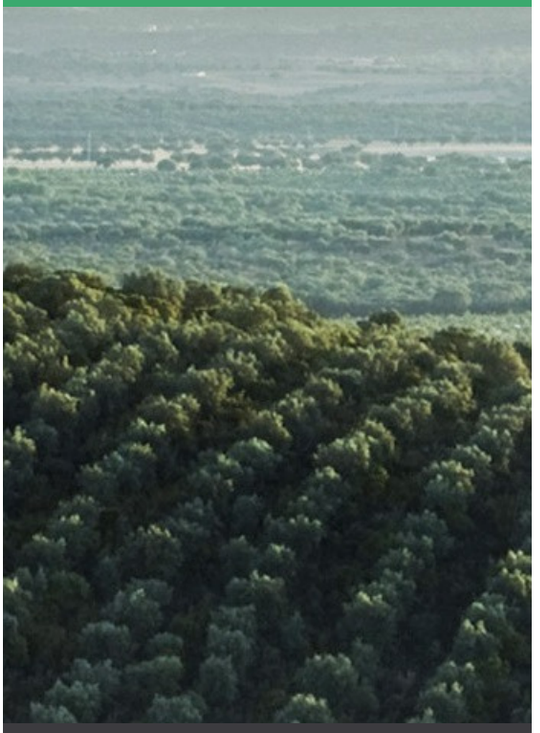
CARBOLIVA

biocarbón sostenible

Olive Pits Charcoal:
Product Data Sheet

1. Description

Carboliva is an energy services company that has operated its plant at the Acesur-Coosur facilities in Puente del Obispo (Jaén) since 2018. Utilizing a continuous pyrolytic oven, it converts olive grove biomass supplied by Coosur into water vapor for the olive pomace oil extraction process. Additionally, it generates approximately 5,000 tons of olive pulp biochar and olive pits biochar annually.



2. Applications of Biochar

- Green steel: With its elevated fixed carbon content and an ash content of less than 5%, olive pit charcoal is ideally suited for the low-carbon steelmaking process, which is experiencing growing demand among various European steel mills.
- Biochar: Charcoal has been utilized for centuries to enhance the carbon content of degraded soils (terra preta). Its porous structure enables it to retain more water than its own weight, along with nutrients and microorganisms that support plant growth in challenging conditions.
- Activated Charcoal: Olive stone charcoal serves as an effective alternative to coconut shell charcoal sourced from Asia. The European Parliament has enacted a ban on the importation of charcoal produced in nations experiencing deforestation.
- Carbon Reduction: Initiatives aimed at regulating CO2 emissions into the atmosphere must also depend on the substantial injection of carbon into the soil, ensuring its retention for hundreds or even thousands of years. The H/C ratio of Olive Stone Charcoal enables its classification as a carbon reduction method with the highest assurance.

Barbecue charcoal. This charcoal is both odorless and smokeless, with briquettes lasting three to four hours on the grill. Its calorific value is approximately 8,000 kcal/kg (33.5 megajoules), and it contains less than 5% ash and 8-12% moisture content.

3. Specifications

3.1. Physicochemical Characteristics

	Organic Olive Stone Charcoal
CHEMICAL NOMENCLATURE	BIOCOAL
MOISTURE LEVEL	8-12 % MAX.
ASH CONTENT	3 - 5 %
DENSITY	400 - 500 kg/m3
VOLATILE COMPONENT CONTENT	15 - 20% APPROX.
FIXED CARBON CONCENTRATION	75 - 85%
GRANULOMETRY	CLEAN 2mm: 30% CLEAN 3mm: 35% CLEAN 4mm: 35%
HEATING VALUE	7500-8000 Kcal/Kilo WITH A 5% MARGIN (33.5 Mega Joules)
COMPOSITION	CLEAN AND DRY OLIVE PITCH CARBONIZED IN A CONTINUOUS ROTARY KILN
ORGANOLEPTIC PROPERTIES	APPEARANCE: BLACK IN COLOR, ODORLESS, AND TASTELESS
ESTIMATED BARBECUE DURATION	4 HOURS, AT +100°C
STORAGE AND EXPIRATION	STORE IN A DRY LOCATION. NO EXPIRATION DATE. AVOID DRAFTS.
PACKAGING FORMAT	Large Bag of 1,000 - 1,100 Kilograms

4. Security

Biochar is a safe product; however, at extremely low humidity levels, it may release fine particles during handling that could lead to respiratory irritation. To mitigate this risk, it is advisable to slightly moisten the biochar prior to handling and to avoid inhalation or to wear an appropriate mask. Biochar can develop small "hot spots" when subjected to drafts, heat, or an ignition source. When combusted, biochar can emit carbon monoxide and should never be burned indoors. It is recommended to refrain from removing it from the large bag until it is time to mix or apply.

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www.carboliva.es