

BIOX CARBON

Where Nature Meets Innovation

BIOX CARBON is an Algerian leader in transforming olive pomace, an abundant local resource, into high value-added products.

Born from the industrial evolution of SARL Bitume Oxydée de l'Est, our company embodies a successful transition to a circular and sustainable economy.

We specialize in the design and production of purification, combustion, and agricultural amendment solutions that meet the most demanding standards of industrial and consumer markets.



**BIOX
CARBON**

OUR VISION

Our vision is to become a leading national and regional player in the sustainable transformation of agricultural biomass.

OUR HISTORY

Founded in 1999 in Berrahal (Annaba Province), our company, initially named SARL Bitume Oxydée de l'Est, was a recognized player in the production of bitumen for waterproofing applications

In 2013, aware of environmental challenges and the untapped potential of local biomass, we initiated a fundamental strategic transition. We progressively redirected our industrial expertise to focus on the valorization of by-products from olive cultivation.

This transformation gave rise to BIOX CARBON, a resolutely forward-thinking company whose mission is to create high-performance, clean products from renewable resources.

OUR OBJECTIVES

- 1. Sustainability:** To offer solutions with a low carbon footprint by valorizing a local, renewable resource.
- 2. Quality:** To guarantee high-performance, reliable, and traceable "Made in Algeria" products, offering a quality alternative to imported goods.
- 3. Innovation:** To continuously invest in our processes to optimize quality and develop new applications for our products.
- 4. Partnership:** To provide our industrial clients with accessible technical products and expert support for their purification needs.



ACTIVATED CARBON

FROM OLIVE POMACE



Your trusted source for high-quality activated carbon from olive pomace.

We are a specialized producer of premium activated carbon derived from a unique and sustainable resource: olive pomace. By valorizing this by-product of the olive oil industry, we have developed unique expertise in mastering steam activation to create a carbon with exceptional performance. Our commitment is to provide innovative and environmentally friendly purification solutions.



An Effective, Sustainable, and Local Solution

Highly microporous structure: Guarantees superior adsorption capacities, particularly effective for low molecular weight molecules.

Exceptional hardness: Offers long-lasting durability and performance, minimizing attrition losses in demanding applications.

Reactivation potential : Improves the cost-effectiveness of your industrial operations and supports a responsible approach to waste reduction.

Sustainable choice : Based on a renewable raw material, our carbon is part of a circular economy approach that valorizes a local resource en valorisant une ressource locale.

Customized Solutions with Olive Pomace Activated Carbon

Our Olea Sorb (granular) and Filtra Green (powdered) ranges are recognized for their exceptional performance and versatility. Designed to meet the specific requirements of each industry, our solutions are backed by in-depth technical expertise. We collaborate closely with our clients to develop innovative activated carbon solutions that address unique challenges and guarantee optimal results.



Granular activated carbon from olive pomace



Powder activated carbon from olive pomace



The OLEASORB logo features a green geometric polyhedron icon to the left of the word "OLEASORB" in a large, bold, blue sans-serif font.

GRANULAR ACTIVATED CARBON FROM OLIVE POMACE

The Olea Sorb range is a series of high-quality granular activated carbons produced exclusively from selected olive pomace. Our controlled steam activation process develops a highly microporous internal structure, giving the product excellent adsorption capacity for a wide range of organic contaminants.

The superior mechanical hardness and low dust content of Olea Sorb make it an ideal choice for liquid and gas phase applications, ensuring reliable performance and a long service life in filtration systems..



Typical Applications

Potable Water Treatment: Dechlorination and removal of disinfection by-products (THMs). Taste and odor improvement. Removal of pesticides and organic micropollutants.

Air and Gas Treatment: Removal of volatile organic compounds (VOCs). Deodorization of air streams. Biogas purification (siloxane removal).

Industrial Process Water Treatment: Water purification for the food and beverage industry. Protection of ion exchange resins.

Precious Metal Recovery (Gold Mining): Excellent performance in Carbon-in-Leach (CIL), Carbon-in-Pulp (CIP), and Carbon-in-Column (CIC) processes due to its high abrasion resistance and rapid adsorption kinetics.

Features and Benefits

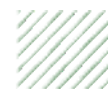
Sustainable Raw Material: Produced 100% from olive pomace, a renewable and valorized resource.

High Purity: Low ash content and activation via a purely thermal process, without the addition of chemicals.

Controlled Quality: All parameters are rigorously tested according to international ASTM standards.

High Adsorption Capacity: The developed microporous structure is highly effective for the removal of low molecular weight organic compounds, tastes, odors, and chlorine.

Excellent Mechanical Strength: Its high hardness minimizes attrition losses during backwashing and transport operations, thereby reducing operating costs.





Technical Specifications

Parameter	Specification	Test Method
Iodine Number	800 - 1200 mg/g	ASTM D4607
Hardness (Ball-Pan)	≥ 95 %	ASTM D3802
Moisture Content (as packed)	≤ 5 %	ASTM D2867
Total Ash Content	≤ 5 %	ASTM D2866

Typical Physical Properties

Parameter	Typical Value	Test Method
Specific Surface Area (BET)	800 - 1200 m ² /g	ASTMD3663 / D6556
Apparent Density	370 - 480 kg/m ³	ASTM D2854
pH	4 - 11	ASTM D3838
Methylene Blue Number	200 - 250 mg/g	ASTM D4607
Attrition Loss	≤ 4 %	ASTM D3802
Uniformity Coefficient	< 2.0	ASTM D2862
Appearance	Irregular black granules	Visual
Odor	Odorless	Organoleptic

Available Particle Sizes

Our crushing process allows us to offer the most common standard market sizes, including::

- 4 x 8 mesh (4.75 - 2.36 mm)
- 8 x 16 mesh (2.36 - 1.18 mm)
- 6*12 mesh (3.36- 1.68 mm)
- 8 x 30 mesh (2.36 - 0.60 mm)
- 12 x 30 mesh (1.70 - 0.60 mm)

Other particle sizes available upon request within the 4x30 mesh range [ASTM D2862].

Packaging



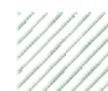
- 25 kg multi-wall paper bags on pallets
- 500 kg polypropylene FIBCs (big bags) with a polyethylene inner liner

Storage

Store in a dry, well-ventilated area, away from direct sunlight, heat sources, and oxidizing agents. Keep in the original sealed packaging to maintain product integrity.

Safety and Handling

Activated carbon is a safe product. However, wet activated carbon can deplete oxygen in confined spaces. Adhere to safety procedures for working in potentially oxygen-deficient atmospheres. Avoid inhaling dust during handling. A Safety Data Sheet (SDS) is available upon request.





OLEASORB GAC-800 S

GRANULAR ACTIVATED CARBON For general water & air treatment

Olea Sorb GAC-800 S is a granular activated carbon produced by the steam activation of selected olive pomace. This controlled manufacturing process develops a balanced pore structure with a significant volume of micropores and mesopores, optimized for the adsorption of a wide range of organic compounds.

Its robustness and density make it an economical and reliable filtration medium for general treatment applications where consistent performance and a long service life are required.



Technical Specifications

Parameter	Specification	Test Method
Iodine Number	min. 800 mg/g	ASTM D4607
Hardness (Ball-Pan)	min. 95 %	ASTM D3802
Moisture Content (as packed)	max. 5 %	ASTM D2867
Total Ash Content	max. 10 %	ASTM D2866

Typical Physical Properties

Parameter	Typical Value	Test Method
Methylene Blue Number	~ 200 mg/g	ASTM D4607
Specific Surface Area (BET)	~ 850 m ² /g	ASTMD3663 / D6556
Apparent Density	~ 480 kg/m ³	ASTM D2854
pH	8 - 11	ASTM D3838

Typical Applications

Wastewater Treatment: Tertiary treatment for residual COD (Chemical Oxygen Demand) reduction and color removal.

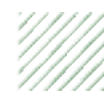
Process Water Treatment: Dechlorination and removal of organic matter to protect downstream equipment (heat exchangers, resins).

Air Treatment (Vapor Phase): General deodorization for pumping stations, waste treatment facilities, and ventilation systems (HVAC).

Aquariums and Fish Farming: Water filtration for the removal of organic impurities and clarity improvement.

Available Particle Sizes

- 4 x 10 mesh (4.75 - 2.00 mm)
- 8 x 16 mesh (2.36 - 1.18 mm)
- 8 x 30 mesh (2.36 - 0.60 mm)
- 12 x 30 mesh (1.70 - 0.60 mm)





OLEASORB GAC-950 S

HIGH ACTIVITY GRANULAR ACTIVATED CARBON For potable water & gold recovery

Olea Sorb GAC-950 S is a high-activity granular activated carbon manufactured from olive pomace using an advanced steam activation process. This treatment develops a predominantly microporous internal structure, providing superior adsorption capacity for low molecular weight organic compounds.

Its exceptional mechanical hardness, comparable to that of coconut shell-based carbons, minimizes attrition and the generation of fines, ensuring optimal performance in demanding hydraulic circuits such as those in gold mining



Technical Specifications

Parameter	Specification	Test Method
Iodine Number	min. 950 mg/g	ASTM D4607
Hardness (Ball-Pan)	min. 96 %	ASTM D3802
Moisture Content (as packed)	max. 5 %	ASTM D2867
Total Ash Content	max. 6 %	ASTM D2866

Typical Physical Properties

Parameter	Typical Value	Test Method
Methylene Blue Number	~ 220 mg/g	ASTM D4607
Specific Surface Area (BET)	~ 1000 m ² /g	ASTMD3663 / D6556
Apparent Density	~ 440 kg/m ³	ASTM D2854
pH	8 - 11	ASTM D3838

Typical Applications

Potable Water Treatment: Removal of disinfection by-products (Trihalomethanes - THMs). Adsorption of micropollutants, pesticides, and pharmaceutical residues. Dechlorination and removal of tastes and odors (geosmin, MIB).

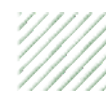
Precious Metal Recovery (Gold Mining): Excellent performance in Carbon-in-Leach (CIL), Carbon-in-Pulp (CIP), and Carbon-in-Column (CIC) processes due to its high abrasion resistance and rapid adsorption kinetics.

Food and Beverage Industry: Process water purification for the production of beverages, beers, and spirits.

Air Treatment: Removal of volatile organic compounds (VOCs) at low concentrations

Available Particle Sizes

- 8 x 16 mesh (2.36 - 1.18 mm)
- 8 x 30 mesh (2.36 - 0.60 mm)
- 12 x 30 mesh (1.70 - 0.60 mm)





OLEASORB GAC-1000 S

PREMIUM GRANULAR ACTIVATED CARBON For High Purity Applications

Olea Sorb GAC-1000 S is a premium-grade granular activated carbon with exceptional adsorption activity. Produced through an intensive steam activation of olive pomace, this grade possesses a very high specific surface area and an almost exclusively microporous structure.

This morphology is specifically designed to maximize the adsorption capacity for trace organic contaminants and low molecular weight molecules. Its high purity and mechanical strength make it the preferred choice for critical applications where maximum performance is non-negotiable.



Technical Specifications

Parameter	Specification	Test Method
Iodine Number	min. 1000 mg/g	ASTM D4607
Hardness (Ball-Pan)	min. 97 %	ASTM D3802
Moisture Content (as packed)	max. 5 %	ASTM D2867
Total Ash Content	max. 3 %	ASTM D2866

Typical Physical Properties

Parameter	Typical Value	Test Method
Methylene Blue Number	~ 230 mg/g	ASTM D4607
Specific Surface Area (BET)	~ 1050 m ² /g	ASTMD3663 / D6556
Apparent Density	~ 420 kg/m ³	ASTM D2854
pH	8 - 11	ASTM D3838

Typical Applications

Potable Water Treatment (Critical Applications): Advanced removal of emerging contaminants (PFAS, pharmaceutical residues) and disinfection by-product precursors.

Pharmaceutical and Chemical Industries: Process water purification (purified water), protection of catalysts and resins.

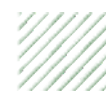
Beverage Industry: Dechlorination and deodorization for mineral waters and sodas, ensuring perfect organoleptic neutrality.

Domestic Filters (Point-of-Use / Point-of-Entry): Use in filter cartridges for maximum adsorption performance

Gold Recovery (Complex Ores): Recommended for low-grade ores or those with a "preg-robbing" effect, where high adsorption kinetics and capacity are crucial

Available Particle Sizes

- 6 x 12 mesh (3.36 - 1.68 mm)
- 8 x 30 mesh (2.36 - 0.60 mm)
- 12 x 30 mesh (1.70 - 0.60 mm)





Technical Specifications

Parameter	Specification	Test Method
Iodine Number	800 - 1200 mg/g	ASTM D4607
Moisture Content (as packed)	≤ 5 %	ASTM D2867
Total Ash Content	≤ 6 %	ASTM D2866

Typical Physical Properties

Parameter	Typical Value	Test Method
Specific Surface Area (BET)	800 - 1200 m ² /g	ASTMD3663 / D6556
Apparent Density	430 - 580 kg/m ³	ASTM D2854
pH	4 - 11	ASTM D3838
Methylene Blue Number	200 - 250 mg/g	ASTM D4607
Appearance	Fine black powder	Visual
Odor	Odorless	Organoleptic

Available Particle Sizes

We offer several milling fineness grades to optimize kinetics and filtration depending on the application:

- Standard: < 200 mesh (≥ 90 % passing 0.075 mm)
- Fine: < 325 mesh (≥ 90 % passing 0.045 mm)

Packaging



- 25 kg multi-wall paper bags on pallets
- 500 kg polypropylene FIBCs (big bags) with a polyethylene inner liner

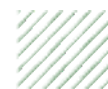
Storage

Store in a dry, well-ventilated area, away from direct sunlight, heat sources, and oxidizing agents. Keep in the original sealed packaging to prevent moisture re-adsorption.

Safety and Handling

Activated carbon is a safe product. However:

- Wet activated carbon can deplete oxygen in confined spaces.
- Always follow safety procedures when working in potentially oxygen-deficient atmospheres.
- Avoid inhaling dust during handling.
- A Safety Data Sheet (SDS) is available upon request.





FILTRA GREEN PAC-800 S

POWDERED ACTIVATED CARBON For Effluent Treatment

Filtra Green PAC-800 S is a powdered activated carbon produced by steam activation of olive pomace, followed by precision milling to achieve a standard particle size. Designed to be dosed directly into liquid streams, this product offers rapid adsorption kinetics and a good retention capacity for a wide range of organic molecules.

It is an economical and effective solution for batch treatments, managing seasonal pollution, and improving the quality of industrial and municipal effluents.



Technical Specifications

Parameter	Specification	Test Method
Iodine Number	min. 800 mg/g	ASTM D4607
Moisture Content (as packed)	max. 8 %	ASTM D2867
Total Ash Content	max. 6 %	ASTM D2866

Typical Physical Properties

Parameter	Typical Value	Test Method
Methylene Blue Number	~ 210 mg/g	ASTM D4607
Specific Surface Area (BET)	~ 850 m ² /g	ASTMD3663 / D6556
Apparent Density	~ 560 kg/m ³	ASTM D2854
pH	8 - 11	ASTM D3838

Typical Applications

Wastewater Treatment:

Reduction of COD and color in industrial effluents. Removal of nitrification inhibitors in biological treatment plants.

Potable Water Treatment:

Management of seasonal taste and odor peaks (algae). Partial removal of pesticides during accidental pollution events.

Chemical Industry:

General purification and decolorization of intermediate chemical products.

Available Particle Sizes

- Standard (S) : > 90% < 200 mesh (0.075 mm)





FILTRA GREEN PAC-950 F

HIGH PURITY POWDERED ACTIVATED CARBON For Food & Pharma

Filtra Green PAC-950 F is a high-performance powdered activated carbon characterized by high adsorption activity and a fine particle size. Obtained through an advanced activation of olive pomace, this grade is specifically designed for purification applications where maximum efficiency and rapid kinetics are paramount.

Its pore structure, rich in mesopores and micropores, is particularly effective for decolorization and the removal of organic impurities in the food, beverage, and pharmaceutical industries.



Technical Specifications

Parameter	Specification	Test Method
Iodine Number	min. 950 mg/g	ASTM D4607
Moisture Content (as packed)	max. 8 %	ASTM D2867
Total Ash Content	max. 5 %	ASTM D2866

Typical Physical Properties

Parameter	Typical Value	Test Method
Methylene Blue Number	~ 240 mg/g	ASTM D4607
Specific Surface Area (BET)	~ 1000 m ² /g	ASTMD3663 / D6556
Apparent Density	~ 450 kg/m ³	ASTM D2854
pH	8 - 11	ASTM D3838

Typical Applications

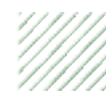
Food and Beverage Industry: Decolorization of sugar syrups (glucose, fructose), glycerin, and edible oils. Purification of organic acids (citric acid, lactic acid). Color adjustment and removal of off-tastes in fruit juices and alcoholic beverages.

Pharmaceutical Industry: Purification of active pharmaceutical ingredients (APIs) and synthesis intermediates. Removal of colors and impurities in antibiotics and vitamins.

Water Treatment: Removal of persistent organic pollutants at low concentrations.

Available Particle Sizes

- Fine (F) : > 90% < 325 mesh (0.045 mm)





OUR APPLICATIONS

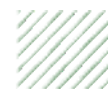
ACTIVATED CARBON SOLUTIONS FOR EVERY INDUSTRY

Activated carbon is an essential purification agent, indispensable in countless industrial and environmental processes. Thanks to their unique and sustainable raw material (olive pomace) and a mastered steam activation process, our Olea Sorb (Granular) and Filtra Green (Powdered) ranges offer exceptional performance in the most demanding applications.



Our expertise allows us to provide customized solutions that meet the specific challenges of each sector, ensuring optimal purity, efficiency, and cost-effectiveness. Discover how our products can improve your processes.

- **Water Treatment:** Advanced solutions to ensure clean and safe water, from municipal treatment to industrial process water.
- **Gold Recovery:** Premium-grade activated carbon, designed for optimal adsorption and maximum resistance in gold extraction circuits.
- **Air and Gas Treatment:** Effective removal of pollutants, odors, and volatile organic compounds (VOCs) from air and industrial gas streams.
- **Food and Beverage:** Improvement of quality, taste, and safety in food and beverage manufacturing processes.
- **Food and Beverage:** Improvement of quality, taste, and safety in food and beverage manufacturing processes.
- **Pharmaceutical and Chemical Industries:** High-purity activated carbon for compound purification, decolorization, and solvent recovery.



WATER TREATMENT



Potable Water Purification : Activated carbon plays an essential role in providing safe, high-quality drinking water. Whether the need is aesthetic (taste, odor), regulatory, or related to emerging contaminants, our products offer a reliable protective barrier. The Olea Sorb and Filtra Green ranges improve drinking water quality by removing :

- Taste and odor compounds (geosmin, 2-Methylisoborneol - MIB).
- Pesticides and their metabolites.
- Organic matter (TOC) and disinfection by-product (DBP) precursors, such as trihalomethanes (THMs).
- Algal toxins (cyanotoxins).
- Synthetic chemicals, such as PFAS.
- Volatile organic compounds (VOCs).
- Endocrine disrupting compounds (EDCs), pharmaceuticals and personal care products (PPCPs).

Recommended Products:

- Olea Sorb GAC-1000 S,
- Olea Sorb GAC-950 S,
- Filtra Green PAC-950 F (for seasonal treatments).

Municipal Wastewater Treatment: The treatment of municipal wastewater requires the removal of micropollutants before discharge into the environment. Activated carbon is a proven polishing technology (tertiary or quaternary treatment) to capture persistent organic contaminants that are not removed by biological treatments. Our Olea Sorb and Filtra Green carbons significantly reduce the concentrations of these pollutants, allowing for safe water discharge.

- Organic matter (COD).
- Pharmaceuticals (carbamazepine, diclofenac, etc.).
- Personal care products (PPCPs).
- Hormones and other endocrine disrupting compounds (EDCs).

Recommended Products:

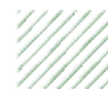
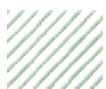
- Olea Sorb GAC-800 S,
- Filtra Green PAC-800 S

Industrial Wastewater Treatment and Reuse: Each industry generates specific effluents, often containing a complex mixture of pollutants. Before being discharged or reused ("water reuse" processes), this water must be treated to remove toxic compounds. Activated carbon is a flexible and effective solution for treating these effluents. Our products can remove:

- Organic matter (COD).
- BTEX (benzene, toluene, ethylbenzene, and xylene).
- Phenols.
- Colorants.
- AOX (Adsorbable Organic Halides).
- Pesticides and surfactants.

Recommended Products:

- Olea Sorb GAC-800 S,
- Filtra Green PAC-800 S



Landfill Leachate Treatment: Leachate, the liquid that percolates through landfill sites, is a highly complex and concentrated effluent. Activated carbon is a key treatment step for removing persistent organic pollutants before final discharge. Olea Sorb carbon can reduce levels of :

- Organic matter (COD).
- PFAS (Per- and Polyfluoroalkyl Substances).
- Colors and toxic compounds

Recommended Product :

- Olea Sorb GAC-800 S

Process Water: Many industries (food and beverage, chemical, etc.) require high-purity water for their manufacturing processes. Activated carbon is an indispensable step to protect sensitive equipment like reverse osmosis membranes or ion exchange resins. Olea Sorb carbons effectively remove:

- Chlorine and chloramines.
- THMs (trihalomethanes).
- Organic pollutants that could foul the equipment

Recommended Product :

- Olea Sorb GAC-1000 S

Pool Filters: Activated carbon is used in swimming pool filtration systems, especially those treated with ozone, to ensure the highest quality bathing water. It protects swimmers by removing disinfection by-products. Olea Sorb carbon can remove:

- Excess oxidizing agents (ozone, chlorine).
- Ozonation by-products.
- Trihalomethanes (THMs) and chloramines.
- Tastes and odors.

Recommended Product :

- Olea Sorb GAC-950 S,

Soil and Groundwater Remediation: The pollution of soil and groundwater from past industrial or agricultural activities requires robust remediation solutions. Groundwater treatment via pump-and-treat with granular activated carbon filtration is a standard and effective method. The Olea Sorb range can remove :

- Volatile organic compounds (VOCs).
- BTEX (benzene, toluene, ethylbenzene, xylenes).
- MTBE (Methyl tert-butyl ether).
- PFAS.
- PAHs (Polycyclic Aromatic Hydrocarbons).
- TCE (trichloroethylene) and PCE (perchloroethylene).

Recommended Product :

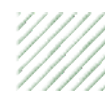
- Olea Sorb GAC-950 S

Aquarium and Pond Filters: Water filtration is vital for maintaining a healthy environment for aquatic life. High-quality activated carbon helps keep water clear and free of harmful compounds. Our Olea Sorb carbon, thanks to its purity and hardness, is an excellent choice for filter manufacturers. It can remove :

- Decomposing organic matter.
- Tannins that cause yellow water discoloration.
- Colors and odors.
- Residual chlorine and chloramines

Recommended Product :

- Olea Sorb GAC-800 S



FOOD AND BEVERAGE



Food and beverage production is one of the most strictly regulated industries in the world. It is vital that public health is the top priority for producers and that all potentially hazardous pollutants and impurities are eliminated. The use of activated carbon is a prime solution not only for removing contaminants but also for controlling the color, taste, and odor of finished products.

Food and beverage production is one of the most strictly regulated industries in the world. It is vital that public health is the top priority for producers and that all potentially hazardous pollutants and impurities are eliminated. The use of activated carbon is a prime solution not only for removing contaminants but also for controlling the color, taste, and odor of finished products.

Our solutions allow for :

- Removal of undesirable colors, tastes, and odors.
- Elimination of pollutants and process by-products.
- Highest-level purification of process water for beverage production.
- Providing a reliable, cost-effective, and sustainable solution.

Edible Oils: Activated carbon is widely used in the purification of edible oils (olive, rapeseed, sunflower, etc.). It effectively corrects color while removing toxins and pollutants such as polycyclic aromatic hydrocarbons (PAHs), which can form during pressing or refining processes. Our powdered activated carbon, with its optimized pore structure, offers cutting-edge performance for this application

- Contaminants removed: Color bodies, PAHs (e.g., Benzo[a]pyrene), taste precursors

Recommended Product :

- Filtra Green PAC-950 F

Brewing, Bottling, and Carbonated Beverages: To guarantee consistent and impeccable quality, the water used to produce beer, bottled water, and carbonated beverages is systematically treated with activated carbon. Our granular products, used in fixed-bed filters, constitute an indispensable safety barrier for process water quality. They effectively remove:

- Chlorine and chloramines.
- Disinfection by-products (THMs).
- Organic pollutants.
- Tastes and odors.
- Undesirable trace compounds (pesticides, etc.).

Recommended Products :

- Olea Sorb GAC-1000 S,
- Filtra Green PAC-950 F

Fruit Juices: In the production of fruit juices, particularly concentrates, activated carbon is an essential purification agent. It is used for decolorization, final color adjustment, and the removal of undesirable compounds that can appear during fruit processing. Our high-performance powdered carbon is particularly effective for :

- Decolorization of light and dark juices.
- Removal of undesirable by-products like HMF (Hydroxymethylfurfural).
- Removal of patulin (a mycotoxin).

Recommended Product :

- Filtra Green PAC-950 F

Organic Acids (Citric Acid, Lactic Acid): Citric acid and lactic acid are often produced through fermentation processes that can generate impurities and colored compounds. Activated carbon is used in the final purification step to decolorize the raw solution and ensure the final product meets the strictest food-grade quality standards

Recommended Product :

- Filtra Green PAC-950 F (batch treatment)

Glycerin: Activated carbon meets several needs in glycerin purification. It is used to remove coloration and undesirable by-products, which helps to stabilize the final product and control its aging

Recommended Products :

- Olea Sorb GAC-950 S,
- Filtra Green PAC-950 F

Sweeteners: Our activated carbons are highly effective for the purification of various sweeteners, where decolorization is a critical step in the process. They remove colors and undesirable by-products formed during production, ensuring a high-purity final product. Applications include :

- Cane sugar.
- Glucose.
- Fructose syrups

Recommended Products :

- Filtra Green PAC-950 F (batch treatment)
- Olea Sorb GAC-950 S (fixed-bed treatment).

Gelatin and Monosodium Glutamate (MSG): The production of gelatin (a thickening agent) and MSG (a flavor enhancer) involves processing steps that can generate colors and odors. Powdered activated carbon is used for the deodorization and decolorization of these products, ensuring their neutrality and purity.

Recommended Product :

- Filtra Green PAC-950 F





AIR AND GAS TREATMENT



Global urban and industrial growth has made air purification an increasing priority. To combat the rise of airborne contaminants, we supply high-performance activated carbons for various air and gas purification needs. These solutions are designed to comply with emissions control regulations by effectively removing odors, volatile organic compounds (VOCs), and chemicals from air and gas streams. Our solutions address a variety of needs, including industrial waste gas treatment, solvent recovery, carbon dioxide (CO₂) purification, and biogas treatment

Industrial Air and Gas Treatment: Industrial processes emit fumes and volatile organic compounds (VOCs) that must be captured to comply with environmental regulations. Our Olea Sorb granular activated carbon is ideal for these fixed-bed applications.

Recommended Product :

- Olea Sorb GAC-800 S

Solvent Recovery: Industries such as printing or adhesive manufacturing use organic solvent vapors. Our granular activated carbon is designed to efficiently adsorb these solvents, allowing for their recovery and reuse, which reduces costs and environmental impact.

Recommended Product :

- Olea Sorb GAC-950 S



GOLD RECOVERY

Activated carbon for gold recovery is specifically designed for Carbon-in-Pulp (CIP), Carbon-in-Leach (CIL), and Carbon-in-Column (CIC) processes. Our products are manufactured under carefully controlled activation conditions and undergo post-activation treatments that ensure a precise and consistent particle size distribution, high particle density and hardness, and an optimal surface area for gold adsorption.

This exclusive production process and attention to carbon quality guarantee top-tier performance in gold mines by minimizing carbon losses in the circuit due to attrition and by offering the best gold adsorption kinetics and loading capacity

The Olea Sorb Solution: Manufactured under strictly controlled conditions, our activated carbons feature a consistent particle size distribution, an optimal pore network for maximum gold adsorption performance, and a long service life in the gold circuit. The exceptional hardness of our olive pomace-based carbon provides abrasion resistance that rivals the best raw materials, reducing fines losses and, consequently, gold losses

Recommended Products :

- Olea Sorb GAC-1000 S (for complex ores),
- Olea Sorb GAC-950 S (industry standard)





Technical Specifications

Physico-chemical characteristic	Value
Carbon content (C)	~ 73,5 % (100% vegetal)
pH	~ 8,7
Ash content	~ 10,6 %
Apparent Density	~ 598 kg/m ³
Moisture content (as packaged)	< 4 %
Volatile matter	~ 14,9 %
Electrical conductivity	< 0.01 mS/cm

Instructions for Use

- Preparation:** For optimal results, it is advisable to "charge" or "activate" the biochar before application. Mix Terrolyve with mature compost, manure, or an organic fertilizer and let it rest for 2 to 3 weeks, keeping it slightly moist.
- Incorporation:** Apply the mixture to the surface and incorporate it into the top 15-20 cm of soil using a tilling tool.
- Indicative Dosage:**
 - Gardens and vegetable plots: 0.5 to 1 kg per m².
 - Potting soils and substrates: Mix in at a rate of 5% to 10% of the total volume.
 - Planting trees/shrubs: Mix 1 to 2 kg with the soil from the planting hole

Safety and Handling

Terrolyve is a natural, stable, and non-toxic product. It is recommended to wear a dust mask during handling to avoid inhaling fine particles. In case of eye contact, rinse thoroughly with clean water

Packaging



- 25 kg bags
- 500 kg FIBCs (big bags)

Storage

Store in a dry, ventilated area to preserve product integrity. Avoid direct contact with moisture before use in the field

