



GEOFLUID

Evolving solid solutions.

CalgonCarbon



**Activated
Carbon**

Water treatment
Liquid phase purification

Vapor phase treatment
Activated carbon cloth

FOUR GOOD REASONS TO PURCHASE PRODUCTS FROM CALGON CARBON

① PERFORMANCE

Over 40 types of powder, granular and pelleted activated carbon products are manufactured from select grades of coal, coconut & wood. This enables selection of the most cost-effective product for purification, separation, concentration, decolorization, product recovery or catalysis.

③ QUALITY

Over 100 years' experience in the manufacture of activated carbon products for liquid and vapor phase applications backed by an ongoing commitment to quality improvement.

Making Drinking Water Safe and Pure

- Granular activated carbon for treatment of taste and odor, disinfection byproducts, emerging contaminants, and other dissolved organics in municipal water.
- FILTRASORB granular activated carbon - the industry standard for drinking water treatment
- NSF-certified, custom portable reactivation services for environmentally responsible and economical use of granular activated carbon
- Granular, powdered and fine mesh activated carbon for home water filtration, Kosher & IFAWCA certificates are available on request.
- SENTINEL® UV disinfection systems for the treatment of Cryptosporidium Giardia and other harmful pathogens.
- SENTINEL® UV-AOP systems for combined disinfection and taste & odor removal.
- PEROXCARB® granular activated carbon for hydrogen peroxide quenching in conjunction with UV-AOP systems.
- Ion exchange technologies for removal of prechlorates and various toxic metals.

Keeping air safe and clean

- FLUEPAC® powdered activated carbons developed for the most cost-effective treatment of mercury in flue gas streams
- Granular, pelletized and reactivated carbons for industrial VOC emission control
- Complete line of vapor-phase adsorption systems for sale and service
- Specialty impregnated carbons for personal protection in military, industrial and collective protection applications
- PHOENIX® odor control systems remove hydrogen sulfide odors at wastewater treatment plants and pumping stations
- CENTAUR® catalyst activated carbon for cost-effective treatment of odors from municipal wastewater treatment

Treating wastewater so it is worry free

- Virgin and reactivated carbon for wastewater treatment
- C3 Series™ UV wastewater disinfection systems to prevent the spread of waterborne pathogens to lakes, streams, rivers and coastal waters
- RAYOX® UV oxidation for removing contaminants in groundwater, wastewater or process water
- UV technologies for wastewater reuse applications
- Hyde GUARDIAN filtration/UV technology to control aquatic invasive species in marine ballast water

Improving and enhancing production processes

- Granular and powdered activated carbons for removal of color, odor, and other organic contaminants
- Acid-washed and impregnated carbons designed for specialty applications
- Ultraviolet (UV) equipment for process water disinfection and purification
- Continuous ion exchange and chromatography technologies for purifying separating and recovery of valuable materials

Adsorption Systems and Equipment

Along with providing activated carbon, Calgon Carbon offers a complete line of standardized pre-engineered adsorption systems, which can be quickly delivered and easily installed at treatment sites.

Vapor phase adsorption systems are used for applications, such as volatile organic compound (VOC) control, air stripper off-gases, and landfill gas emissions. Liquid-phase equipment systems are used for applications, including process purification, wastewater treatment, groundwater remediation, and potable water treatment.

② AVAILABILITY

With the most advanced research and development capabilities plus 16 carbon manufacturing, reactivation and fabrication facilities and 21 sales and service centers, Calgon Carbon is the world's largest manufacturer of granular and powder activated carbon with production and operations in North America, Europe and Asia, thus assuring an uninterrupted supply of activated carbon.

④ DELIVERY

Multiple production plants and centrally located warehouses provide the ability to meet timely delivery schedules. Products are available in bags, drums, super sacks, bulk packs, tote bins or in bulk.

Ultraviolet (UV) Disinfection and Oxidation Technologies

Calgon Carbon's UV Technologies Division is known for its leading application of UV disinfection and UV oxidation technologies for drinking water, wastewater, and groundwater treatment, along with water re-use.



Ballast Water Treatment

Hyde Marine, Inc., a recent addition to Calgon Carbon Corporation, is a global leader in the growing ballast water treatment market.



Ion Exchange Technologies

Calgon Carbon provides continuous ion exchange and chromatography technologies in the ISEP®/CSEP®/RSEP™ lines for purifying, separating, recovering, and synthesizing high value materials.

The proprietary ISEP continuous ion exchange units are used for the purification and recovery of many products in the food, pharmaceutical, and biotechnology industries.



* ISEP - ionic separation; CSEP - chromatographic separator; RSEP - reaction separation

- *Cost-effective integration of multiple small resin beds moving countercurrent to process flows*
- *High product yield, high purity, and maximum concentration recovered*

Industries / Applications:

- | | |
|---------------------------------------|---------------------------------|
| • Aerospace | • Inorganic Chemical |
| • Agriculture | • Medical |
| • Automotive | • Metals and Mining |
| • Catalyst | • Municipal Drinking Water |
| • Cigarette | • Municipal Waste Water |
| • Dry Cleaning | • Oil and Natural Gas |
| • Electric Utilities | • Organic Chemical |
| • Electronics | • Personal Protective Equipment |
| • Environmental Remediation | • Petrochemical |
| • Food and Beverage | • Pharmaceutical |
| • Home and Commercial Water Treatment | • Printing and Surface Coating |
| • HVAC | • Pulp and Paper |
| • Industrial Gas | • Water / Wastewater Treatment |

Authorised Distributor



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