



eVOQUA
WATER TECHNOLOGIES



WESTATES® GRANULAR REACTIVATED CARBON - VOCARB® S SERIES CARBONS

VOCARB® NS, VOCARB® RS, VOCARB® RSD CARBONS

For Gas Phase Adsorption Applications

Description

VOCarb® S Series carbons are produced through thermal reactivation of approved grades of spent carbon at one of our state-of-the-art ISO 14001 certified reactivation facilities. Through careful control of the residence time in the reactivation furnace, reactivation temperature, and reactivation gas composition, adsorbed contaminants on the spent carbon are removed and destroyed, and the carbon's internal pore structure is maintained as close to virgin condition as possible. VOCarb S Series reactivated carbons are pooled from a variety of sources, ensuring consistent product properties. The resulting carbon serves as an excellent economic alternative to virgin carbon for the removal of a broad range of organic contaminants from a variety of gas phase streams.

Applications

Cost effective VOCarb S Series reactivated carbons have been demonstrated to provide excellent performance in a variety of vapor phase treatment applications, including the following:

- Chemical process applications
- VOC control from air strippers, soil vapor extraction and air sparge systems
- Control of tank vent emissions
- HVAC
- Odor Control

Quality Control

Evoqua' laboratories are fully equipped to provide complete quality control analysis using ASTM standard test methods in order to assure the consistent quality of all Westates® carbons.

Our technical staff offers hands-on guidance in selecting the most appropriate system, operating conditions and carbon to meet your needs. For more information contact your nearest Evoqua representative. performed at our certified laboratory. When requested, a certificate of reactivation will be issued.

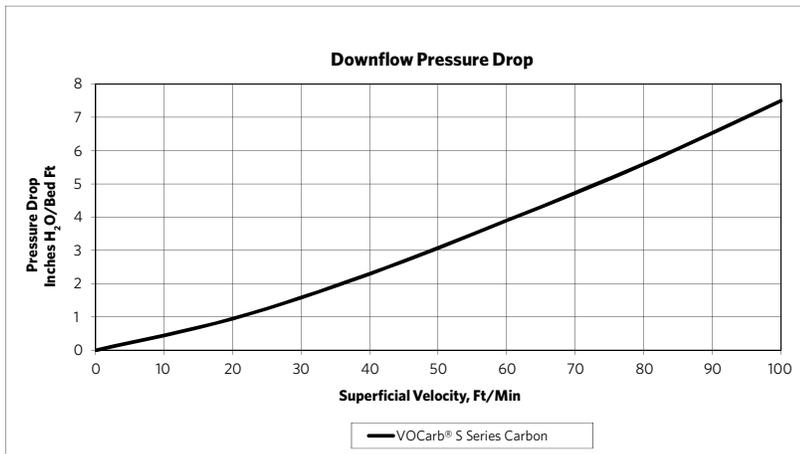
FEATURES AND BENEFITS

- Reactivated carbons serve as an economical alternative to virgin carbon in many applications
- Use of reactivated carbons reduces the volume of spent carbon sent to landfill and encourages responsible usage of natural resources
- A detailed quality assurance program guarantees consistent a from lot to lot and shipment to shipment
- Pooled reactivated carbons provide consistent properties and performance
- Reactivated carbons produced at ISO 14001 certified reactivation facilities, ensuring minimization of environmental liability and continued benchmarking, against best practice standards for environmental management

TYPICAL PROPERTIES

Parameter	VOCarb® S Carbon
Carbon Type	Reactivated Coconut/Coal
Mesh Size, U.S. Sieve	4 x 10
Butane Activity ⁽¹⁾	19.5 - 23.5
Apparent Density, g/cc	0.45 - 0.56
Moisture as Packed, Wt. %	2
CTC Activity ⁽¹⁾	50 - 60

⁽¹⁾ Butane activity (D5742) has been adopted by ASTM as a replacement for CTC activity (D3467) as a test method for estimating the micropore volume of an activated carbon.



Warning

The adsorption of organic compounds onto activated carbon generates heat. In rare instances, adsorbed compounds may also react on the carbon surface to generate additional heat. If these heat sources are not properly dissipated, the carbon bed temperature may rise to the point where the carbon can ignite, leading to a fire or other hazardous condition. A description of industry-accepted engineering practices to assure the dissipation of heat and safe operation of the carbon bed can be provided upon request. In certain applications where the risk of ignition is significant, activated carbon may not be a recommended treatment technology. Please contact your Technical Sales Representative for more details.

Wet activated carbon readily adsorbs atmospheric oxygen. Dangerously low oxygen levels may exist in closed vessels or poorly ventilated storage areas. Workers should follow all applicable state and federal safety guidelines for entering oxygen depleted areas.



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