



FILTRASORB[®] 100 & 200

GRANULAR ACTIVATED CARBONS FOR POTABLE WATER

DESCRIPTION

Filtrisorb 100 and Filtrisorb 200 are two granular activated carbons developed by Calgon Carbon Corporation for the removal of taste and odor compounds and dissolved organic compounds in potable water treatment.

These activated carbons are manufactured from select grades of bituminous coal to produce a durable granular product capable of withstanding the abrasion associated with repeated backwashing, air scouring, and hydraulic transport. Activation is carefully controlled to produce exceptionally high internal surface area with optimum pore size for effective adsorption of a broad range of high and low molecular weight organic contaminants. The product is also designed to comply with all the applicable provisions of the AWWA Standard for Granular Activated Carbon edition B604-90, the stringent requirements of ANSI/NSF Standard 61 and Food Chemicals Codex.

APPLICATIONS

Filtrisorb 100 and 200 can be used to treat surface and ground water sources for the production of drinking water. These carbons can be used as a complete replacement for sand or anthracite media. Filtrisorb 100 and 200 carbons function as a dual purpose medium, providing both filtration and adsorption.

DESIGN CONSIDERATIONS

As a replacement for existing filter media, conversion to Filtrisorb 100 and 200 activated carbons impose no major changes to a plant's normal filtration operations. If more contact time is required, the height of the backwash troughs can be increased. Calgon Carbon can also provide complete modular adsorption systems as an add-on treatment stage if required.

PACKAGING

55 Pound (25 kg) 5 Ply Bag
 1,000 Pound (453.7 kg) Super Sack
 Bulk Trucks

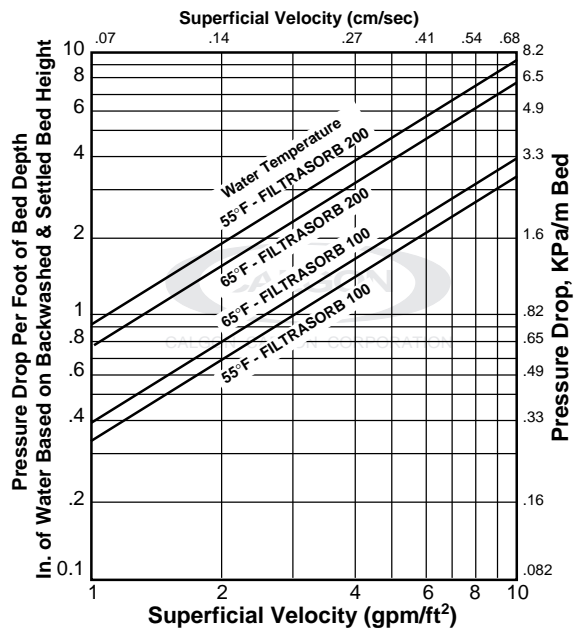
MANUFACTURING

Catlettsburg, KY
 Pearlinton, MS

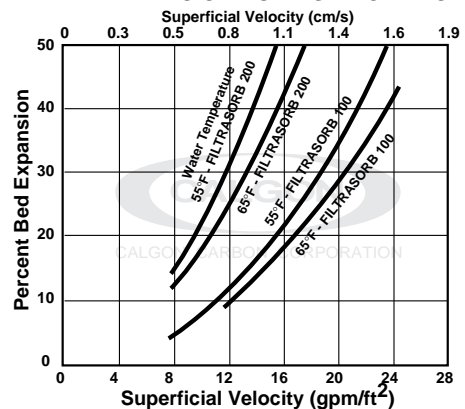
SPECIFICATIONS

	F100	F200
Iodine Number, mg/g (Min.)	850	850
Moisture, weight % (Max.)	2	2
Abrasion Number (Min.)	75	75
Effective Size, mm	0.8-1.0	0.55-0.75
Uniformity Coefficient (Max.)	2.1	1.9
Sieve Size, U.S. Sieve Series, weight %		
Larger than No. 8 (Max.)	15	-
Smaller than No. 30 (Max.)	4	-
Larger than No. 12 (Max.)	-	5
Smaller than No. 40 (Max.)	-	4

HYDRAULIC CHARACTERISTICS DOWNFLOW PRESSURE DROP



BED EXPANSION DURING BACKWASH



FEATURES

- Bituminous-based raw material
- High density
- Coal is pulverized and reagglomerated with suitable binder

BENEFITS

- Provides higher hardness relative to other raw materials reducing the generation of fines and product losses during backwashing.
- Pore structure provides a wider range of contaminant removal capabilities relative to other starting materials.
- Filtrasorb carbons are of high density, wet readily, and do not float, thus minimizing loss during backwash operations.
- Creates optimal transport paths for faster adsorption.
- Generates the hardness and abrasion resistance required for thermal reactivation and minimizes generation of fines in operations requiring backwashing.

SAFETY MESSAGE

Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate sampling and work procedures for potentially low oxygen spaces should be followed, including all applicable federal and state requirements.

1-800-4-CARBON

Domestic Sales Offices

Region I

Bridgewater, NJ
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Region II

Pittsburgh, PA
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Region III

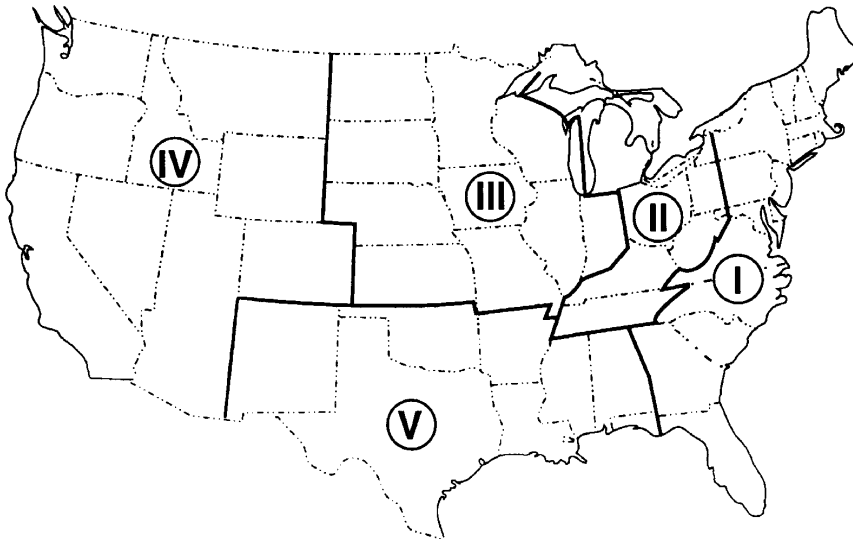
Lisle, IL
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Region IV

Richmond, CA
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Region V

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Fax (65) 221-3554

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Chemviron Carbon
B-1200 Brussels, Belgium
Tel 32 2 773 02 11
Fax 32 2 770 93 94

If at any time our products or services do not meet your requirements or expectations, or if you would like to suggest any ideas for improvement, please call us at 1-800-548-1999. From outside the U.S. please call +1-412-787-6700.



CALGON CARBON CORPORATION