



CALGON CARBON CORPORATION

FILTRASORB® 816 & 820

PRODUCT BULLETIN

GRANULAR ACTIVATED CARBONS FOR POTABLE WATER

DESCRIPTION

Filtrisorb 816 and Filtrisorb 820 are two high activity 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 high activity, durable granular product capable of withstanding the abrasion associated with repeated backwashing, air scouring, and hydraulic transport. Activation is carefully controlled to produce an 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 extractable metals requirements of ANSI/NSF Standard 61 and Food Chemicals Codex.

APPLICATIONS

Filtrisorb 816 and 820 are used primarily to treat surface water sources for the production of drinking water. These carbons are coarser mesh media and are generally used in deep bed filters where pressure drop may be a concern. Filtrisorb 816 and 820 carbons function as dual purpose media, providing both filtration and adsorption.

DESIGN CONSIDERATIONS

As a replacement for existing filter media, the conversion to Filtrisorb 816 or 820 activated carbon imposes 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 Corporation 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

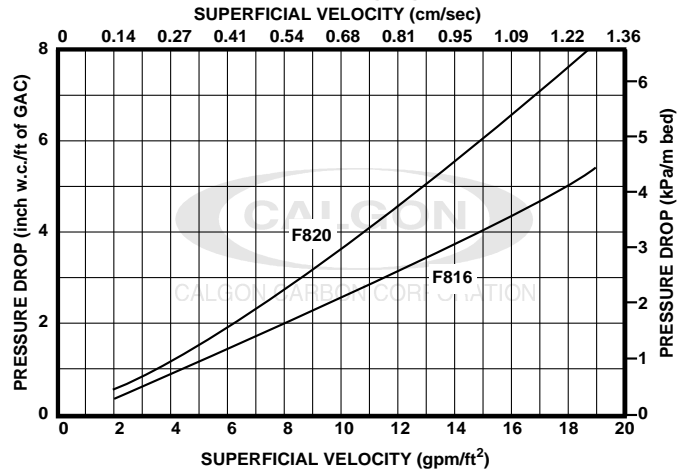
MANUFACTURING

Catlettsburg, KY
 Pearlinton, MS

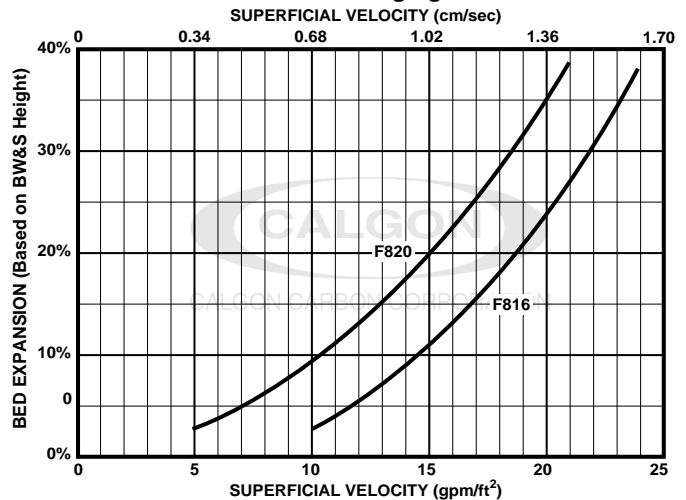
SPECIFICATIONS

	F816	F820
Iodine Number, mg/g (Min.)	900	900
Moisture, weight % (Max. %)	2	2
Abrasion Number (Min.)	75	75
Effective Size, mm	1.3-1.5	1.0-1.2
Uniformity Coefficient (Max.)	1.4	1.5
Ash, weight % (Max.)	8	8
Apparent Density, g/cc (Min.)	.50-.57	.50-.57
Water Soluble Ash, weight % (Max.)	-	0.5
Sieve Size, U.S. Sieve Series, weight %		
Larger than No. 8 (Max.)	15	5
Smaller than No. 16 (Max.)	5	-
Smaller than No. 20 (Max.)	-	4

Down Flow Pressure Drop at 55°F Backwashed & Segregated Bed



Bed Expansion During Backwash at 55°F Backwashed & Segregated Bed



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

www.calgoncarbon.com

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Calgon Carbon Corporation's activated carbon products are continuously being improved and changes may have taken place since this publication went to press.



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