

FILTRASORB® 300 & 400

Granular Activated Carbons for Potable Water

Description

FILTRASORB® 300 and FILTRASORB® 400 are two high activity granular activated carbons developed by Calgon Carbon Corporation for the removal of taste and odor compounds and dissolved organic compounds from water treatment.

These activated carbons are made from selected 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 formulated to comply with all the applicable provisions of the AWWA Standard for Granular Activated Carbon, edition B604-96, the stringent extractable metals requirements of ANSI/NSF Standard 61, and the Food Chemicals Codex.

Applications

FILTRASORB® 300 and 400 activated carbons can be used to treat surface and groundwater sources for the production of drinking water. These products can be used as a complete replacement for sand and anthracite media. FILTRASORB® 300 and 400 activated carbons function as dual purpose media, providing both filtration and adsorption. FILTRASORB® has been used successfully in drinking water applications for over 40 years.

Design Considerations

As a replacement for existing filter media, conversion to FILTRASORB® 300 and 400 granular activated carbons impose no major changes to a plant's normal filtration operations. Calgon Carbon Corporation can also provide complete modular adsorption systems as an add-on treatment stage if required.

Features

- Bituminous-based raw material
- 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
- Generates the hardness and abrasion resistance required for thermal reactivation and minimizing generation of fines in operations requiring backwashing
- Pore structure provides a wider range of contaminant removal capabilities relative to other starting material
- High density, wets readily, and does not float, thus minimizing loss during backwash operations
- Creates optimal transport paths for faster adsorption

Specifications

	F300	F400
Iodine Number, mg/g (min)	900	1000
Moisture, weight % (max %)	2	2
Abrasion Number (min)	78	75
Effective Size, mm	0.8 - 1.0	0.55-0.75
Uniformity Coefficient (max)	2.1	1.9
Ash, weight % (max)	8	9
Apparent Density, g/cc (min)	0.48	0.44
US 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

Carbon and Process Media

Visit our website at www.calgoncarbon.com, or call 800-422-7266 to learn more about our complete range of products and services, and obtain local contact information.

CPM-PBI042-0304

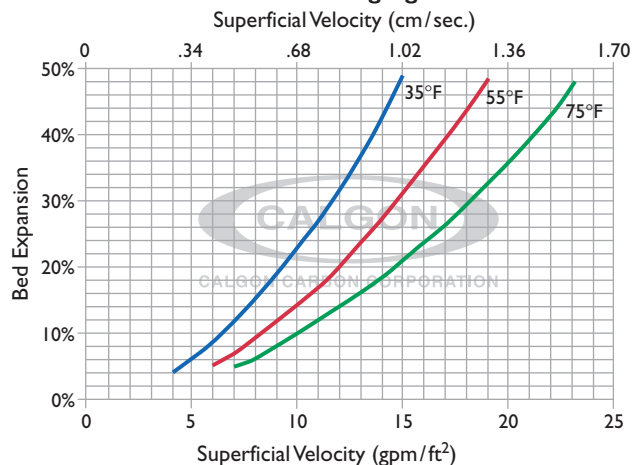


Responsible Care®
Good Chemistry at Work

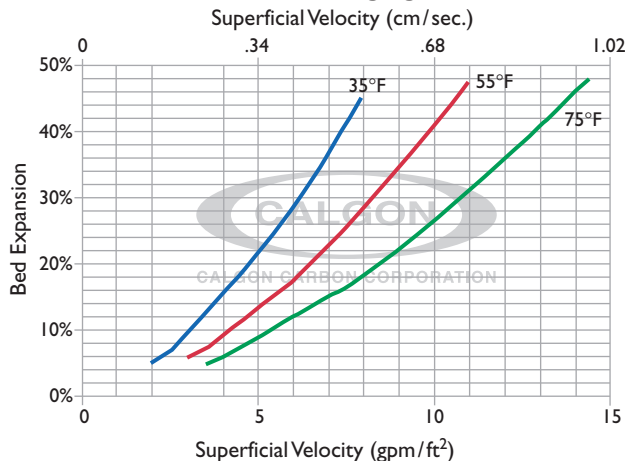
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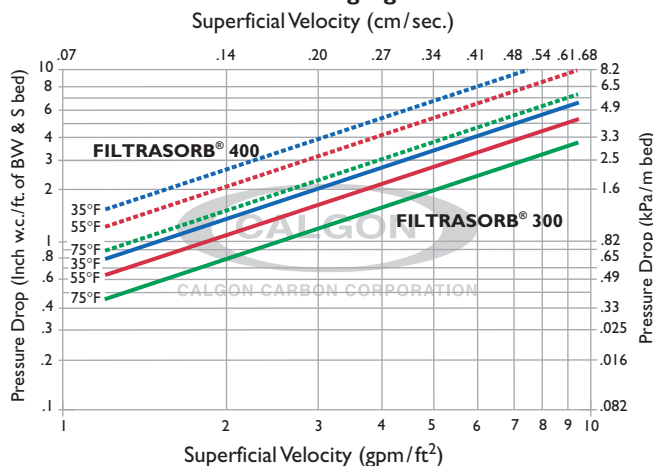
FILTRASORB® 300 – Bed Expansion
Backwashed & Segregated Bed



FILTRASORB® 400 – Bed Expansion
Backwashed & Segregated Bed



FILTRASORB® Downflow Pressure Drop
Backwashed & Segregated Bed



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.

Visit our website at www.calgoncarbon.com



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