

# FILTRASORB® 200

## Granular Activated Carbon for Municipal Specifications



### Description

FILTRASORB® 200 is a granular activated carbon developed by Calgon Carbon Corporation for the removal of taste and odor compounds, disinfection by-products, low level volatile organic compounds, and other targeted compounds from potable water. Although this product can be used for surface water applications with low level background total organic carbon, it was specifically developed for groundwater applications.

This activated carbon is manufactured from selected 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 a product with a significant volume of high energy pores as measured by the trace capacity number, while still maintaining a high iodine number for effective adsorption of a broad range of high and low molecular weight organic contaminants. The higher density of this activated carbon results in a greater adsorptive capacity per filter volume as measured by the volume iodine number. The product is also designed to comply with all the applicable provisions of the AWWA Standard for Granular Activated Carbon, edition B604-05, the stringent extractable requirements of ANSI/NSF Standard 61, and the Food Chemicals Codex.

### Specifications

Specifications	Value
Iodine Number.	850 mg/g (min)
Moisture by weight	2% (max)
Effective size	0.55 - 0.75 mm
Uniformity Coefficient	1.9 (max)
Abrasion No.	75 (min)
Trace Capacity Number	11 mg/cc (min)
Screen Size by weight, US Sieve Series	
On 12 mesh	5% (max)
Through 40 mesh	4% (max)

### Typical Property

Typical Property	Value
Apparent Density	0.59 g/cc
Ash by weight	7%

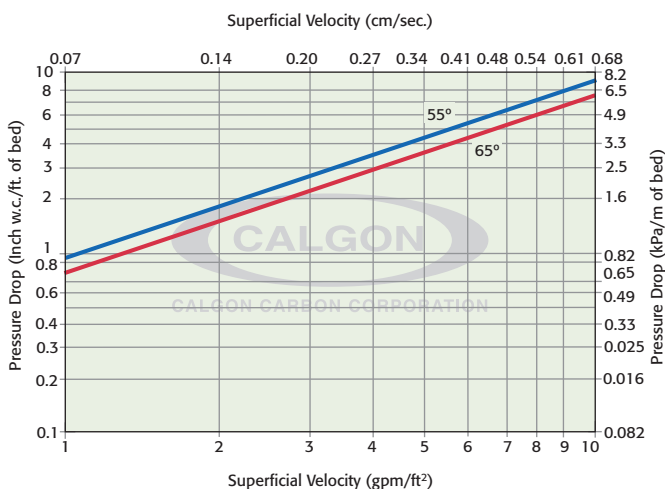
### Features

Bituminous-based raw material	Provides higher hardness relative to other raw materials reducing the generation of fines and product losses during backwashing.
Coal is pulverized and reagglomerated with suitable binder	<p>Pore structure provides a product with a significant volume of high energy pores as measured by the trace capacity number, while still maintaining a high iodine number.</p> <p>Has a high density resulting in a greater adsorption capacity per filter volume, wets readily, and does not float, thus minimizing loss during backwash operations.</p> <p>Creates optimal transport paths for faster adsorption.</p>

### Benefits

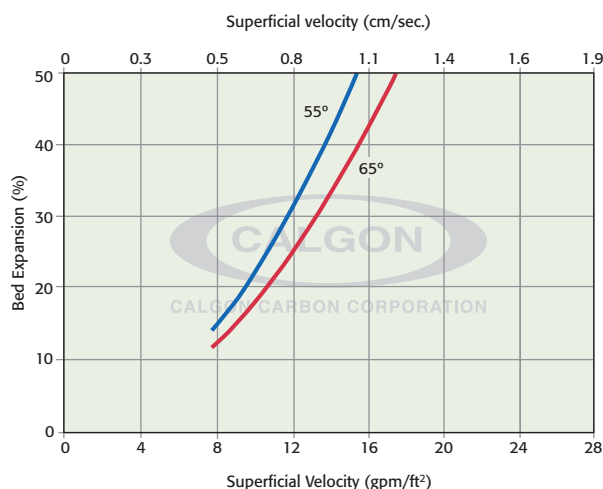
### Pressure Drop

Based on Backwashed and Segregated Bed



### Backwash Bed Expansion

Based on Backwashed and Segregated Bed



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### Applications

FILTRASORB® 200 activated carbon can be used to treat surface and groundwater sources for the production of drinking water. This carbon can be used as a complete replacement for sand and anthracite media. FILTRASORB® 200 functions as a 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® 200 granular activated carbon imposes no major change 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 lb. (25 kg) poly bag  
1,000 lb. (454 kg) super sack  
Bulk truck

### 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.



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### Your local representative

