

GW 12 X 40

GRANULAR ACTIVATED CARBON

Highly Effective and Economical Filter Medium for Dechlorination and Trace Dissolved Organic Removal Used in Water Treatment Equipment Where High Quality Water is Desired

Calgon Carbon's GW 12x40 granular activated carbon is a filter medium for efficient dechlorination and the removal of trace dissolved organics from water supplies, including those causing taste and odors.

The effectiveness and economy of water treatment using GW 12x40 carbon has resulted in wide acceptance in food processing and beverage industries, where dechlorination and dissolved organic removal are of prime importance. This carbon is also used in steam generating plants to produce high quality makeup water.

Advantages and Benefits

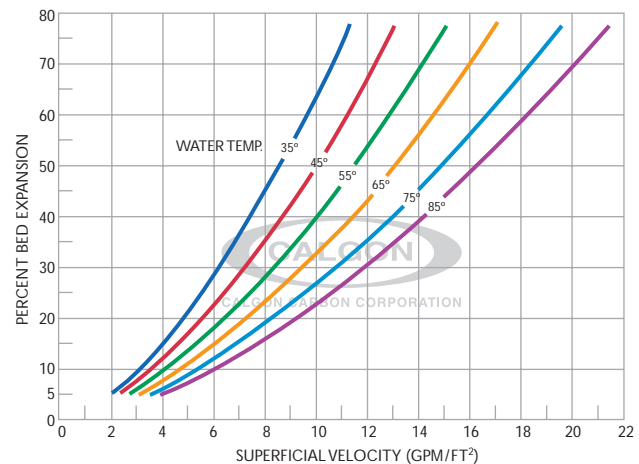
- **Economical to use.** Particle size, high surface area and high density of GW 12x40 carbon result in long filter life, providing maximum assurance against chlorine breakthrough and an extended service period for removing dissolved organics from water.
- **Provides long-lasting protection.** The high surface area of this product, approximately 900 square meters per gram (N₂-BET method), effectively removes a wide range of dissolved organics over a long period of time. Produced under rigidly controlled conditions by high temperature steam activation, GW 12x40 carbon provides a pore structure with optimum characteristics for removing dissolved organics to produce high quality potable water.
- **Superior hardness.** GW 12x40 carbon is made from selected grades of bituminous coal combined with suitable binders to give superior hardness for long life.
- **Suitable for backwashing.** The high density and hardness of GW 12x40 carbon allows rapid wetting and makes it suitable for effective backwashing with minimum losses. For the purpose of estimating the volume of GW 12x40 carbon in systems utilizing backwash procedures, GW 12x40 carbon has a backwashed and settled bulk density of approximately 29 pounds per cubic foot.

Dechlorination of Water

The properties of GW 12x40 granular carbon offer superior dechlorination efficiency. In most water treatment applications, a bed of GW 12x40 will provide dechlorination of the water for periods varying between one and three years.

Dechlorination efficiencies are significantly improved at higher water temperatures and lower pH values. The presence of some organic impurities does not affect dechlorination performance, while other impurities can lower efficiency significantly.

The performance of GW 12x40 for dechlorination will depend on the conditions of treatment and the water supply treated. As a manufacturer of water conditioning equipment, you can assist your customer in estimating dechlorination efficiency based on his operation and the water supply being treated.



Percent bed expansion of a backwashed segregated bed of GW 12x40

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.

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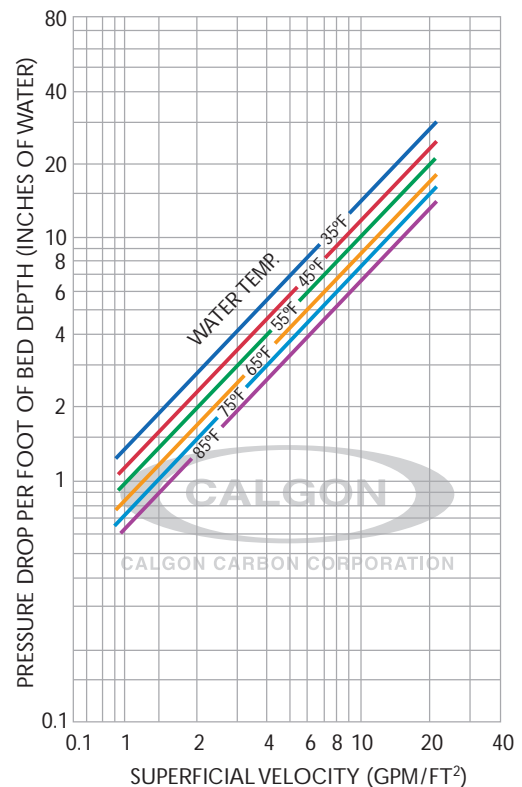
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Specifications

Mesh Size, U.S. Sieve Series	12x40
Larger than 12 Mesh, %	5 max.
Smaller than 40 Mesh, %	5 max.
Mean Particle Diameter, mm	0.9-1.1
Iodine Number	850 min.
Methylene Blue Number	200 min.
Abrasion Number	75 min.
Ash, %	11.0 max.
Moisture as Packed, %	2.0 max.

Packaging

Packed in 5 cu. ft. fiber drums, 145 lbs. net; 2 cu. ft. drums, 58 lbs.net; and 2 cu. ft. bags, 58 lbs, net.



Downflow pressure drop through backwashed segregated bed of GW 12x40

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.

Limitations of Liability: The Supplier's liability and the purchaser's exclusive remedy for any cause of action arising out of this transaction, including, but not limited to, breach of warranty, negligence and/or indemnification, is expressly limited to a maximum of the purchase price of spare parts

or equipment sold hereunder. All claims of whatsoever nature shall be deemed waived unless made in writing within forty-five (45) days of the occurrence giving rise to the claim. In no event shall the Supplier for any reason or pursuant to any provision of the warranty be liable for incidental or consequential damages, or damages in excess of the purchase price, nor shall the supplier be liable for loss of profits or fines imposed by governmental agencies. For information regarding incidents involving human and environmental exposure, call (412) 787-6700 and ask for the Regulatory and Trade Affairs department. For additional information, contact your nearest regional office listed here or write to the Calgon Carbon Corporation, P.O. Box 717, Pittsburgh, PA 15230-0717

Visit our website at www.calgoncarbon.com



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CPM-PB1046-1103

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