

CENTAUR® 12x40

Granular Activated Carbon

Description

CENTAUR® 12x40 is a liquid phase virgin activated carbon that has been manufactured to develop catalytic functionality. The product is unique in that it concentrates reactants via adsorption and then promotes their reaction on the surface of the pores. CENTAUR® 12x40 is produced from bituminous coal using a patented process. Although it is not impregnated with metals or alkalis it displays the catalytic functionality of these materials. In most cases it can be reactivated and does not present the disposal concerns associated with impregnated carbons.

Applications

CENTAUR® 12x40 can be used in liquid phase applications for the promotion of oxidation, reduction, decomposition, substitution, and elimination reactions. Specific applications include chloramine, hydrogen sulfide, bromate reduction, and iron removal from drinking water. This product is particularly suited for use in residential and commercial water filters, for treatment of process water in the bottling and soft drink industries, and for aquarium water treatment. CENTAUR® 12x40 combines a fine pore structure for enhanced adsorption of trace contaminants with high catalytic activity for their elimination. Thermal reactivation is an option for recycle and reuse of this product to minimize operating costs and eliminate disposal concerns.

Design Considerations

CENTAUR® 12x40 is intended primarily for use in liquid phase systems to promote catalytic reactions. Depending on the reactant concentrations the required contact time is usually less than five minutes. The backwashed and drained density of the product is typically 33 lb./ft³. For additional information please contact the Calgon Carbon sales office in your region.

Specifications

Peroxide no., (max)	19
Iodine no., mg/g, (min)	825
Ash, by weight%, (max)	7
Moisture, wt%, as packed, (max)	3
Abrasion no., (min)	75
Apparent Density, g/cc, (min)	0.56
Mean Particle Diameter, mm	0.9 - 1.1
Screen Size, US Sieve Series, (max)	
Percent on 12 mesh	5
Percent through 40 mesh	4

Features

- Catalytic Activity
- Not Impregnated
- Improved Trace Organic Capacity
- High Hardness
- Works at Low Oxidant Levels
- Simple Equipment Design (no pumps or addition of chemicals required)
- Reduced Carbon Requirements
- Enhanced Performance

Benefits

- Smaller system size; lower capital requirements
- No safety concerns with exotherms or toxicity
- More capacity per unit volume; lower use rates
- Reduced fines and handling losses
- Wide applicability; can eliminate chemical addition
- Reduced operating costs
- Achieves greater degree of contaminant removal at reduced costs
- Reliable; handles spikes in concentration; no metering of chemicals

Carbon and Process Media

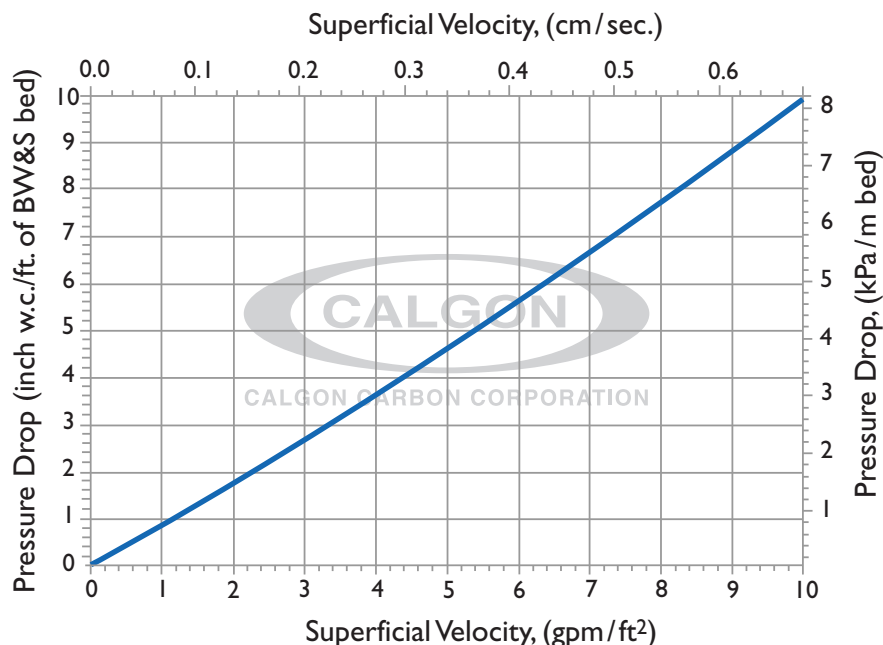
Visit our website at www.calgoncarbon.com, or call 800-422-7266 to learn more about our complete range of products and services, and obtain local contact information.

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Pressure Drop Curve

Nominal Pressure Drop Liquid Downflow through CENTAUR® 12x40 (Based on Backwashed and Segregated Bed)



Packaging

33 lb. (15.0 kg) Kraft Bag

1,000 lb. Super Sack

225 lb. Fiber Drum

Bulk

Purchase of this product from Calgon Carbon Corporation includes a license under the following U.S. Patents: Numbers 5356849 and 5494869.

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.

Visit our website at www.calgoncarbon.com



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