



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 alkali, 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 utilized in the liquid phase for the promotion of oxidation, reduction, decomposition, substitution, and elimination reactions. Specific applications include chloramine, hydrogen sulfide, 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 times are 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.

PACKAGING

33 lb (15.0 kg) Kraft bags

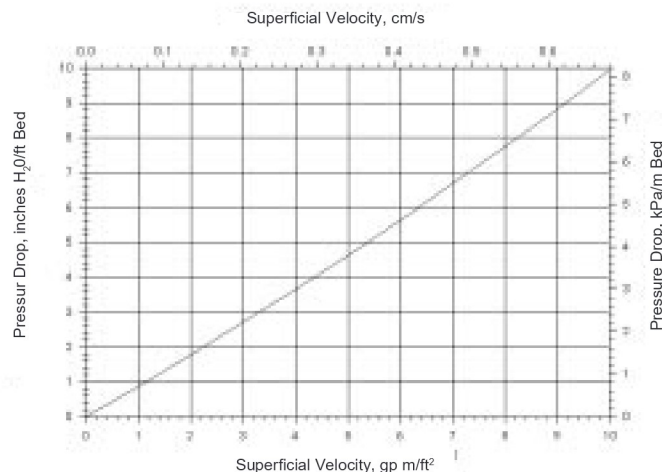
PROPERTIES

Peroxide No.*	14 max
Iodine No., mg/g.....	825 min
Ash, by weight %	7 max
Moisture, wt %, as packed	3 max
Abrasion No.	75 min
Apparent Density, g/ml	0.56 min
<u>U.S. Sieve Series:</u>	
Percent on 12 mesh	5 max
Percent through 40 mesh	4 max

*Peroxide number utilizes the rate of decomposition of hydrogen peroxide by the carbon and is an indicator of the amount of catalytic activity.

PRESSURE DROP CURVE

NOMINAL PRESSURE DROP
LIQUID DOWNFLOW THROUGH CENTAUR 12x40



MANUFACTURING

Catlettsburg, KY

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



FEATURES

- Catalytic Activity
- Not Impregnated
- Improved Trace Organic Capacity
- High Hardness
- Works at Low Oxidant Levels
- Simple Equipment Design
- 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
- Reliable; handles spikes in concentration; no metering of chemicals
- Reduces operating costs
- Achieves greater degree of contaminant removal at reduced costs

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

Domestic Sales Offices

Region I

Bridgewater, NJ
Tel (908) 526-4646
Fax (908) 526-2467

Region II

Pittsburgh, PA
Tel (412) 787-6700
1-800-4-CARBON
Fax (412) 787-6676

Region III

Richmond, CA
Tel (510) 412-1010
Fax (510) 412-5660

Region IV

Houston, TX
Tel (713) 690-2000
Fax (713) 690-7909

International Sales Offices

Australasia/Philippines/ Southeast Asia

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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.



CALGON CARBON CORPORATION