



CENTAUR[®] NDS 12x40

GRANULAR ACTIVATED CARBON

DESCRIPTION

CENTAUR[®] NDS 12x40 is a liquid phase virgin activated carbon that has been manufactured to exhibit enhanced 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 NDS 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. CENTAUR NDS 12x40 is a low water-soluble ash product ideally suited for devices requiring certification under the rigid standards of ANSI/NSF. CENTAUR NDS 12x40 is component listed under NSF Standard 42.

APPLICATIONS

CENTAUR NDS 12x40 can be utilized in the liquid phase for the promotion of several types of reactions. Specific applications include chloramine and hydrogen sulfide removal from potable waters. CENTAUR NDS 12x40 can be utilized in applications such as POU (point of use) water filters and dialysis water treatment. The product is designed to meet the stringent extractable metal requirements of NSF Standard 42 test protocol.

DESIGN CONSIDERATIONS

CENTAUR NDS 12x40 is intended for use in liquid phase applications where maximization of the rate of catalytic reaction is desired. The carbon can be utilized in a fixed bed mode with contact times typically between 1 and 5 minutes depending upon the application.

PACKAGING

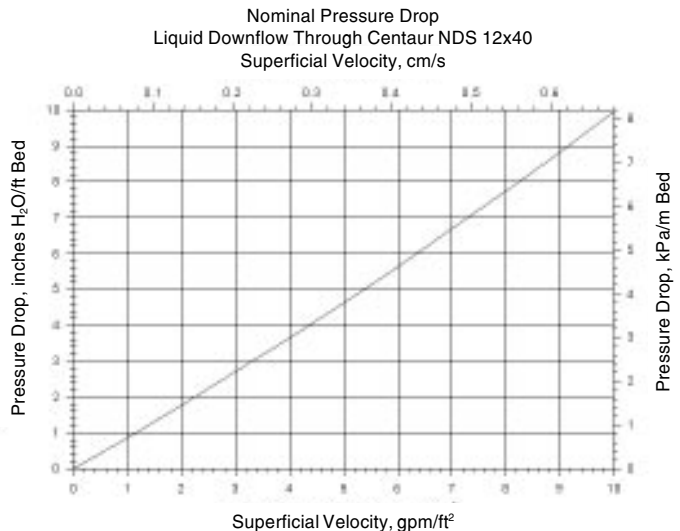
33 lb (15 kg) Kraft bags

PROPERTIES

Peroxide No.* (Inherent)	14 max
Iodine No., mg/g	900 min
Acid Soluble Iron, wt%	0.01 max
Moisture, wt%, as packed	3 max
Abrasion Number	75 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



MANUFACTURING

Catlettsburg, KY

[†] Purchase of this product from Calgon Carbon Corporation includes a license 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
- Low Water Soluble Ash Content

BENEFITS

- Smaller system size; low 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
- Ideal for certification under ANSI/NSF test protocols
- Reduces leachable metals relative to standard activated carbons

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

www.calgoncarbon.com

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

Calgon Carbon Asia
Singapore Office
Tel (65) 221-3500
Fax (65) 221-3554

Canada

Calgon Carbon Canada
Bolton, Ontario
Tel (905) 857-9915
Fax (905) 857-9984

China/Korea/Taiwan

Calgon Carbon Asia
Tokyo Office
Tel 81 3 3560 7505
Fax 81 3 3584 7202

Europe

Chemviron Carbon
B-1200 Brussels, Belgium
Tel 32 2 773 02 11
Fax 32 2 770 93 94

Japan

Calgon Far East
Tokyo Office
Tel 81 3 3582 1861
Fax 81 3 3586 9266

Latin America

Pittsburgh, PA
Tel (412) 787-4519
Fax (412) 787-4523

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