

## 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 used in water treatment applications for the promotion of several types of reactions. Specific applications include chloramine and hydrogen sulfide removal from potable waters. CENTAUR® NDS 12x40 can be used in applications such as POU (point of use) water filters and dialysis water treatment.

### Design Considerations

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

### Packaging

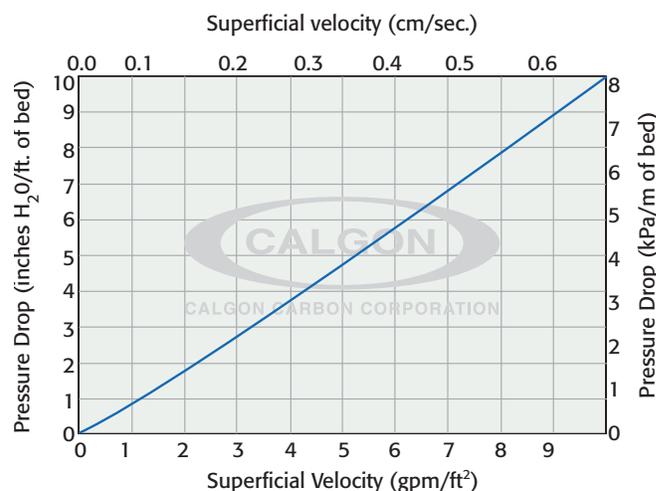
33 lb. (15 kg) Kraft bags

### Features

Catalytic activity	Smaller system size; low capital requirements
Not impregnated	No safety concerns with exotherms or toxicity
Improved trace organic capacity	More capacity per unit volume; lower use rates
High hardness	Reduced fines and handling losses
Works at low oxidant levels	Wide applicability; can eliminate chemical addition
Simple equipment design	Reliable; handles spikes in concentration; no metering of chemicals
Reduced carbon requirements	Reduces operating costs
Enhanced performance	Achieves greater degree of contaminant removal at reduced costs
Low water soluble ash content	Ideal for certification under ANSI/NSF test protocols Reduces leachable metals relative to standard activated carbons

### Nominal Pressure Drop

Liquid Downflow Through CENTAUR® NDS 12x40



### Specifications

Iodine Number	900 mg/g (min)
Acid Soluble Iron by weight	0.01% (max)
Moisture, as packed by weight	3% (max)
Abrasion Number	75 (min)
Extractable pH	5-8
Screen Size by weight, U.S. Sieve Series	
On 12 mesh	5.0% (max)
Through 40 mesh	4.0% (max)

### 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

## **CENTAUR<sup>®</sup> NDS 12x40** Granular Activated Carbon



CALGON CARBON CORPORATION

### **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.