

CENTAUR® 20x50

Granular Activated Carbon

Applications



Industrial Processes



Environmental Water



Pond/
Aquarium/Swim



Landfill Leachate



Bottle &
Brewing



Groundwater



Water Processing



Drinking Water
(Potable)



Consumer Filtration



Wastewater

CENTAUR 20x50 can be utilized in the liquid phase for the promotion of oxidation, reduction, decomposition, substitution, and elimination reactions. Specific applications include chloramines and hydrogen sulfide removal from potable water and peroxide destruction. CENTAUR 20x50 maximizes reaction kinetics with some increase in pressure drop compared to larger mesh products.

Description

CENTAUR 20x50 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 20x50 is produced from bituminous coal using a patented process. Although it is not impregnated with metals or alkali, it displays the catalytic function of these materials. CENTAUR 20x50 does not present the disposal concerns associated with impregnated carbons.

This product complies with the requirements for activated carbon as defined by the Food Chemicals Codex (FCC) (8th Edition) published by the U.S. Pharmacopeia.

Features / Benefits

- Combines a fine pore structure for enhanced adsorption of trace contaminants with high catalytic activity for their elimination
- Not impregnated
- Improved trace organic capacity
- High hardness
- Simple equipment design (no pumps or addition of chemicals required)
- Smaller system size as compared to standard carbons; lower capital requirements
- No safety concerns with exotherms or toxicity as with impregnated carbons
- Wide applicability; can eliminate chemical addition

Specifications

CENTAUR 20x50

Iodine Number, mg/g	800 (min)
Ash, wt%	8 (max)
Moisture (As Packaged), wt%	4 (max)
Abrasion Number	70 (min)
Density (Apparent), g/cc	0.52 (min)
20 US Mesh [0.850mm], wt%	3.0 (max)
<50 US Mesh [0.300mm] (PAN), wt%	1.0 (max)

Safety Message

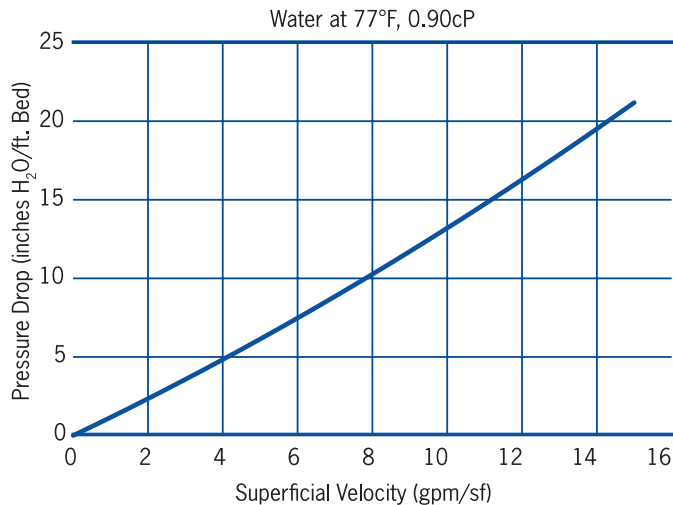
Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

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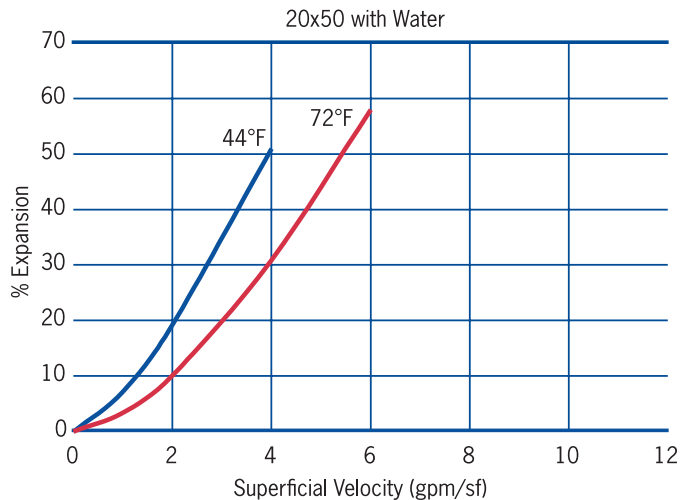
Typical Pressure Drop (CENTAUR 20x50)

Based on a backwashed and segregated bed



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

Typical Bed Expansion During Backwash



Design Considerations

CENTAUR 20x50 is intended primarily for use in liquid phase applications where maximization of catalytic reaction is desired. Depending on the reactant type, concentrations and process conditions, the contact time in fixed bed systems is typically less than seven minutes.

Safety Message

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