

CENTAUR® HSL

Granular Activated Carbon

Description

CENTAUR® HSL is a liquid phase virgin activated carbon that has been manufactured to enhance catalytic functionality. The product is unique in that it concentrates reactants via adsorption and then promotes their reaction on the surface of the carbon pores. CENTAUR® HSL is produced from bituminous coal using a patented process. Although it is not impregnated with transition metals or alkali, CENTAUR® HSL displays the catalytic function of impregnated materials but does not present a disposal problem. CENTAUR® HSL provides a combination of low pressure drop, moderate kinetics, and good resistance to attrition. Thermal reactivation is an option for recycling and reuse of this product. This minimizes operating costs and eliminates disposal concerns.

For VOC & Taste and Odor Removal

CENTAUR® HSL can be used in either groundwater or surface water treatment applications to remove organic compounds. The recommended contact time is 8-15 minutes. Consult a Calgon Carbon Corporation Technical Sales Representative for advice about the proper contact time for your application.

Design Considerations

*For H₂S Removal**

CENTAUR® HSL is intended primarily for use in liquid phase systems to promote catalytic reactions. With oxidation reactions like H₂S to sulfate, the carbon can be utilized in a number of configurations with required contact times of 3 minutes or less. The reaction rate is application specific and has a direct bearing on the Empty Bed Contact Time required. The backwashed and drained density of the product is typically 30 lb./ft³. CENTAUR® HSL requires a minimum dissolved oxygen concentration of a two-to-one ratio with the H₂S concentration.

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

Applications

CENTAUR® HSL can be used in liquid phase applications for the promotion of oxidation, reduction, decomposition, and substitution reactions. Common applications are H₂S oxidation to sulfate and taste and odor removal in groundwater and surface water. It can also be used to prevent H₂S corrosion in pipes and pumps.

Features

- Catalytic Activity
- Thermal Reactivation Option
- Improved Trace Organic Capacity
- High Hardness
- Works at Low Oxidant Levels
- Simple Equipment Design
- Enhanced Performance

Benefits

- Smaller system size due to faster reaction kinetics
- Lower capital equipment requirements
- Eliminates disposal concerns
- More capacity per unit volume which translates to lower carbon use rates resulting in reduced system operating costs
- Reduced fines from attrition over operational life of carbon which equates to reduced power consumption
- Wide applicability which eliminates the need for chemical addition
- Reliable CENTAUR® HSL handles spikes in concentration, without chemical additions
- Achieves greater degree of contaminant (VOCs & odor compounds) removal at reduced costs

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.

CPM-PBI074-0304



Responsible Care®
Good Chemistry at Work

CENTAUR® HSL

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Specifications

	CENTAUR® HSL 8x20	CENTAUR® HSL 8x30
Iodine No., mg/g (min)	825	825
Ash, wt% (max)	7	7
Moisture, wt %, as packed (max)	4	4
Abrasion No. (min)	75	
Apparent Density, g/cc	0.56 min	.550 max
Peroxide Number (max)	14	19
Uniformity Coefficient (max)	2.1	
Effective Size, mm	1.0 - 1.2	
Screen Size, US Sieve Series (max)		
Larger than no. 8	15	15
Smaller than no. 20	4.0	
Smaller than no. 30		4.0

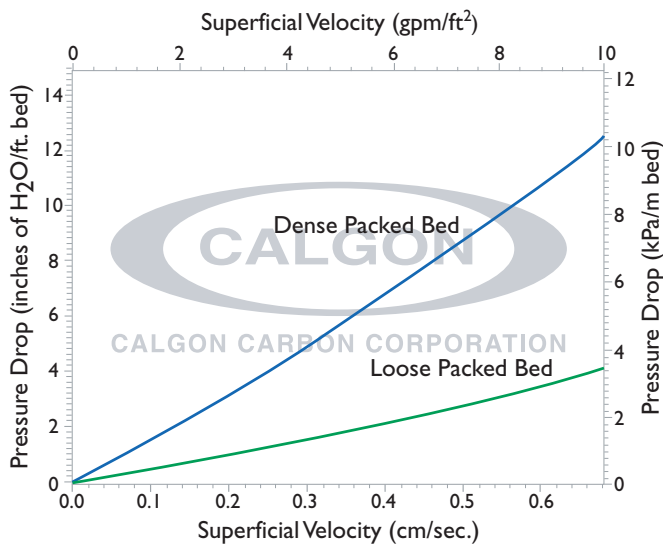
Packaging

200 lb. fiber drum
1,000 lb. super sack
33 lb. bag

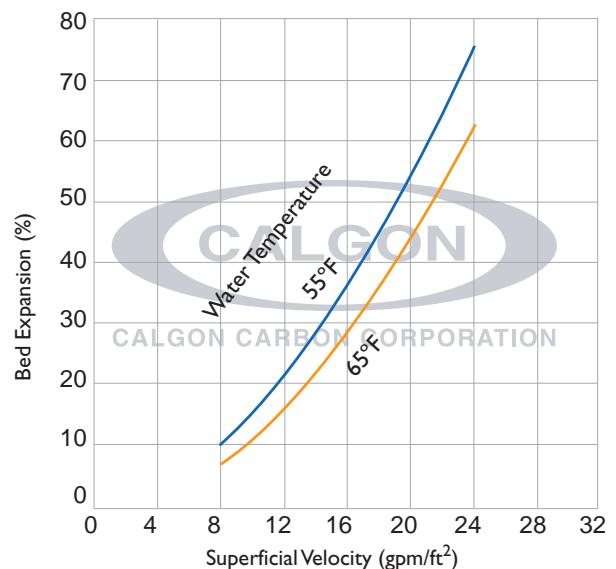
Safety Message

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.

Pressure Drop Curve



Backwash Curve



Visit our website at www.calgoncarbon.com



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