

## **CENTAUR<sup>®</sup> HSV**

CENTAUR<sup>®</sup> HSV is a vapor phase, virgin granular activated carbon that has been developed specifically for odor removal applications. This agglomerated bituminous coal-based product is unique in that it provides the highest adsorption capacity for H<sub>2</sub>S in the industry without chemical impregnants. It also adsorbs volatile organic compounds (VOCs) in an effective manner.

In most cases, the spent (used) CENTAUR<sup>®</sup> HSV can be regenerated, ending your waste-generation liability. Further, If H<sub>2</sub>S is the only contaminate, the spent carbon may be regenerated by water washing to remove the H<sub>2</sub>S as dilute sulfuric acid and then simply drying. Standard mesh size is 4x10, but custom sizes are available upon request.

Test	Typical Values		Calgon Carbon Test Method
	Min	Max	
Ash, wt% (Note 1)	-	7	ASTM D 2866, TM-5
Density (Apparent), g/cc	0.56	-	TM-7, ASTM D 2854
H <sub>2</sub> S Capacity, g/ml	0.09	-	ASTM D 6648, TM-41
Hardness Number (Note 1)	97	-	ASTM D 3802
Iodine Number, mg/g (Note 1)	800	-	TM-4, ASTM D 4607
Moisture (As packaged), wt%	-	4	TM-1, ASTM D 2867
4 US Mesh [4.75 mm], wt%	-	15	TM-8, ASTM D 2862
< 10 US Mesh [2.00 mm] (PAN), wt%	-	2.0	TM-8, ASTM D 2862

Note 1: This test is performed on the base material or prior to impregnation as appropriate.

### **Safety Message**

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**

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### **Warranty Disclaimer**

Calgon Carbon Corporation warrants that the Activated Carbon Centaur<sup>®</sup> HSV will be free from defects in materials and workmanship for a period of 90 days following the date of purchase. In the event of a breach of this warranty, Calgon Carbon Corporation will, in its discretion, repair or replace any defective parts or the complete unit during the warranty period. This warranty does not apply to defects caused by (i) normal wear and tear, (ii) accident, disaster or event of force majeure, (iii) misuse, fault or negligence of or by Buyer, (iv) use of Activated Carbon Centaur<sup>®</sup> HSV in a manner for which it is not designed, (v) external causes such as, but not limited to, power failure or electrical power surges, or (vi) improper storage and handling of the Activated Carbon Centaur<sup>®</sup> HSV. EXCEPT AS EXPRESSLY PROVIDED IN THIS WARRANTY STATEMENT, CALGON CARBON CORPORATION DISCLAIMS ALL OTHER WARRANTIES, WHETHER STATUTORY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. CALGON CARBON CORPORATION DOES NOT WARRANT THAT THE ACTIVATED CARBON CENTAUR<sup>®</sup> HSV ARE ERROR-FREE OR WILL ACCOMPLISH ANY PARTICULAR RESULT. ANY ADVICE OR ASSISTANCE FURNISHED BY CALGON CARBON CORPORATION IN RELATION TO THE ACTIVATED CARBON CENTAUR<sup>®</sup> HSV PROVIDED FOR HEREUNDER SHALL NOT GIVE RISE TO ANY WARRANTY OR GUARANTEE OF ANY KIND. THIS WARRANTY WILL TAKE PRECEDENCE OVER ANY AND ALL OTHER WARRANTIES UNLESS SPECIFICALLY DISCLAIMED AND REFERENCED BY CALGON CARBON CORPORATION.

ACTIVATED CARBON INTRODUCTION  
**ACTIVATED CARBON CENTAUR® HSV**

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Calgon Carbon Corporation may from time to time develop product improvements or alterations (including, without limitation, revisions to product specifications), and may implement such Product Improvements without notice to the Buyer.

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