

## FCA

### GRANULAR ACTIVATED CARBON

#### Calgon Carbon FCA

Calgon Carbon FCA activated carbon is a specially impregnated granular product developed for use in vapor phase applications. It is specifically produced for use in the removal of hydrogen sulfide and low molecular weight organic sulfur compounds from gas streams. Typical applications for FCA carbon include odor control, product purification and elimination of those sulfur compounds that affect catalyst performance.

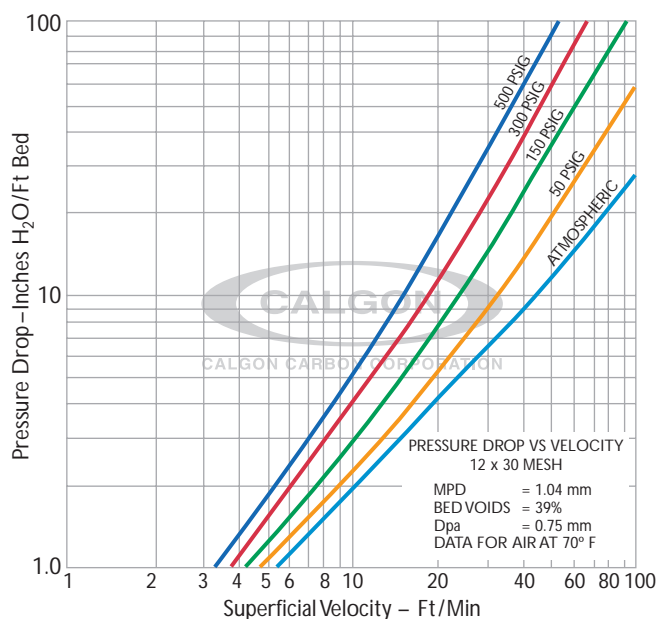
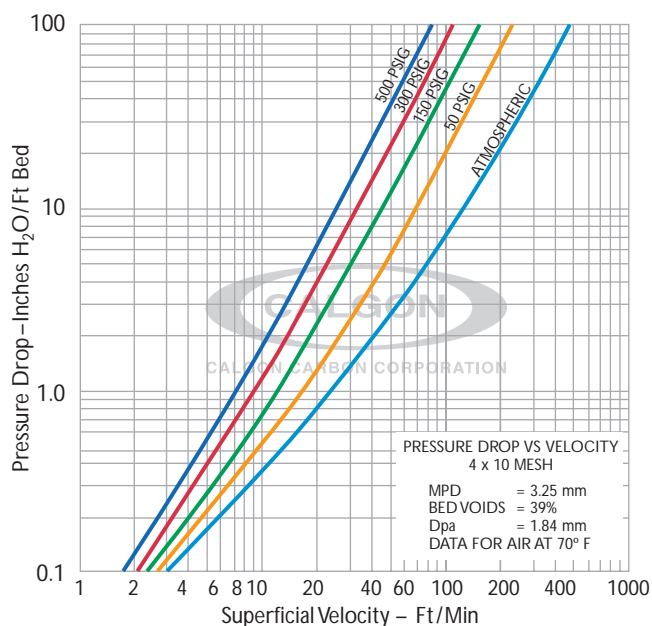
FCA activated carbon is manufactured from selected grades of bituminous coal and suitable binders which impart the superior hardness necessary for long life in such applications. Following high temperature activation under rigidly controlled conditions, the carbon is specially impregnated to provide FCA with the unique properties required for removal of hydrogen sulfide and low molecular weight organic sulfur compounds.

FCA carbon contains only trace quantities of chlorides. It is available in several mesh sizes to suit specific design requirements.

Removal of hydrogen sulfide and low molecular weight organic sulfur compounds by FCA results from a chemical reaction of the sulfur with impregnants present on the carbon. Reactivation of the carbon requires that the reaction be reversed. Since procedures for reactivating FCA carbon are unique, it is suggested that Calgon Carbon be contacted for additional information on reactivation procedures for the specific application.

#### Pressure Drop Characteristics

Pressure drop per foot of bed depth, measured in air at 70°F, can be read for standard mesh sizes of FCA carbon (see graphs). This data was obtained with a dense packing arrangement of 30 lbs./ft<sup>3</sup>.



#### Carbon and Process Media

Visit our website at [www.calgoncarbon.com](http://www.calgoncarbon.com), or call 800-422-7266 to learn more about our complete range of products and services, and obtain local contact information.

# FCA

## GRANULAR ACTIVATED CARBON

### Specifications

Screen Size, U.S. Sieve Series FCA Standard Mesh Sizes

4 x 10

Sieve No.	% Retained
-----------	------------

+ 4	0-5
-----	-----

-10	0-5
-----	-----

12 x 30

Sieve No.	% Retained
-----------	------------

+12	0-5
-----	-----

12x16	10-30
-------	-------

16x20	40-65
-------	-------

20x30	10-35
-------	-------

30	0-5
----	-----

Moisture (% Max)	2.0
------------------	-----

Ammonia Life

14-24 Minutes	12 x 30 Only
---------------	--------------

4 x 10 Typical AD	0.57
-------------------	------

12x30 Typical AD	0.58
------------------	------

### Packaging

Packed in 55-gallon Leverpak Drums, 230 lbs. net, 247 lbs. gross, 6.7 ft<sup>3</sup> per drum.

Mesh Size: 4x10, 12x30 U.S. Sieve Series.

### Warning

Calgon Carbon Corporation does not recommend the use of ASC or FCA carbon for gas streams containing Arsine, Phosphine, Silanes or any other highly reactive chemical compounds. The catalytic oxidation of these compounds is exothermic and could exceed the self-ignition temperature of the carbon (180-190°C for virgin ASC/FCA carbons). In addition, relative humidity and trace levels of acid gases present in ambient air are reported to foul the catalyst over time and reduce its ability to remove these reactive compounds.

If at any time our products or services do not meet your requirements or expectations, or if you would like to suggest any ideas for improvement, please call us at 1-800-422-7266. From outside the U.S. please call +1-412-787-6700.

### 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.

Visit our website at [www.calgoncarbon.com](http://www.calgoncarbon.com)



CALGON CARBON CORPORATION  
Calgon Carbon Corporation  
P.O. Box 717  
Pittsburgh, PA USA 15230-0717  
1-800-422-7266  
Tel: 412-787-6700  
Fx: 412-787-6713

**Chemviron  
Carbon**

European Operations of Calgon  
Carbon Corporation  
Zoning Industriel C de Feluy  
B-7181 Feluy, Belgium  
Tel: + 32 (0) 64 51 18 11  
Fx: + 32 (0) 64 54 15 91

Your local office



CPM-PB1080-0705

©Copyright 2005 Calgon Carbon Corporation, all rights reserved.