

# Product Bulletin

## CENTAUR<sup>®</sup> 8 x 30 GRANULAR ACTIVATED CARBON

### Description

CENTAUR<sup>®</sup> 8x30 is a liquid phase virgin activated carbon that has been manufactured to develop 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 8x30 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. In most cases, it can be reactivated and does not present the disposal concerns associated with impregnated carbon.

### Applications

CENTAUR 8x30 can be utilized in the liquid phase for the promotion of oxidation, reduction, decomposition, substitution, and elimination reactions. Specific applications include H<sub>2</sub>S oxidation in sour water, peroxide destruction, and chloramine removal. CENTAUR 8x30 provides a combination of low pressure drop, moderate kinetics, and good resistance to fines generation. Thermal reactivation is an option for recycle and reuse of this product to minimize operating costs and eliminates disposal concerns.

### Design Considerations

CENTAUR 8x30 is intended primarily for use in liquid phase systems to promote catalytic reactions. The carbon can be utilized in a number of reactor configurations with required contact times typically in the 1-3 minute range. The reaction rate is application specific. The typical apparent density of this product is 0.6 g/cc (37 lb/ft<sup>3</sup>). In practice, the loose packed density is approximately .54 g/cc (34 lb/ft.<sup>3</sup>).

### Packaging

225 lb (102.1 kg) fiber drum

### Specifications

Peroxide No.*	14 max
Iodine No., mg/g	825 min
Ash, by weight%	7 max
Moisture, by weight%, as packed	3 max
Apparent Density, g/cc	0.56 min
Abrasion Number	75 min
Mean Particle Diameter, mm	1.5-1.7

### U.S. Sieve Series

Percent on 8 mesh	15% max
Percent through 30 mesh	4.0% max

\*Peroxide number utilizes the rate of decomposition of hydrogen peroxide by the carbon and is an indicator of the amount of catalytic activity.

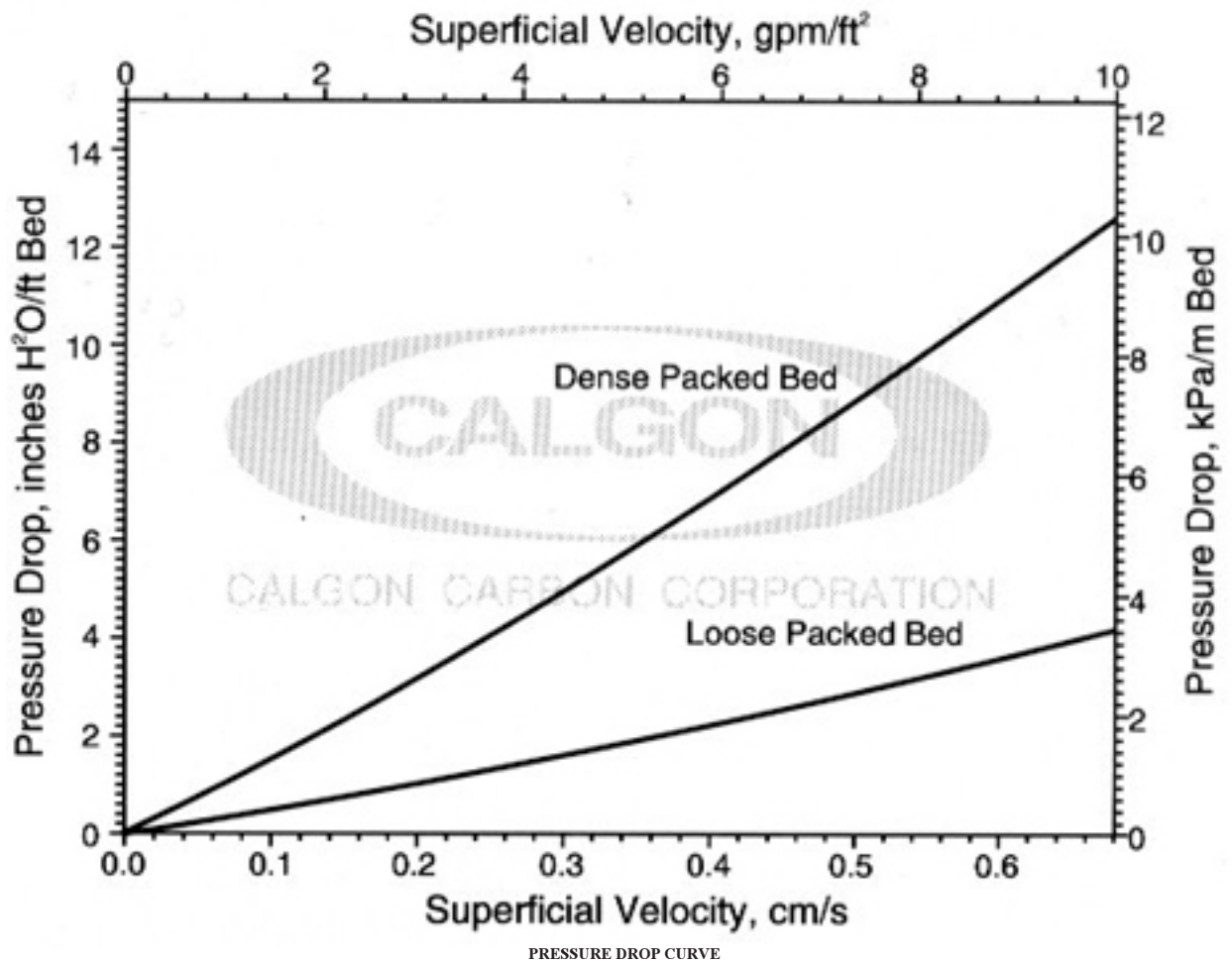
### Manufacturing

Catlettsburg, KY  
Pittsburgh, PA



Visit our website at [www.calgoncarbon.com](http://www.calgoncarbon.com), or call 1-800-4-CARBON to learn more about our complete range of products and services, and local contact information.

**Chemviron  
Carbon**



### Features

- ◆ Catalytic Activity
- ◆ Not Impregnated
- ◆ Improved Trace Organic Capacity
- ◆ High Hardness
- ◆ Works at Low Oxidant Levels
- ◆ Simple Equipment Design
- ◆ Reduced Carbon Requirements
- ◆ Enhanced Performance

### 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 or chemicals
- ◆ Reduces operating costs
- ◆ Achieves greater degree of contaminant removal at reduced costs

### 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.



Calgon Carbon Corporation  
P.O. Box 717  
Pittsburgh, Pa 15230

Chemviron Carbon  
Zoning Industriel C  
B-7181 Feluy, Belgium

