

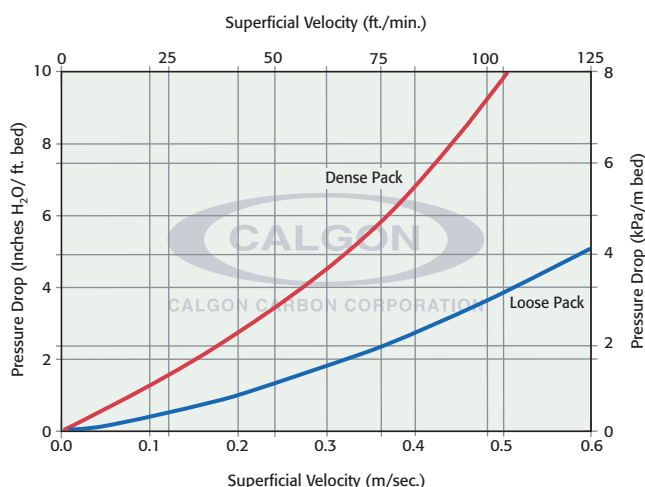
BPL® 6x16

Granular Activated Carbon



Description

BPL® 6x16 is a virgin granular activated carbon designed for use in gas phase applications. It is a bituminous coal-based product activated at a high temperature in a steam atmosphere. The physical properties and particle size distribution of BPL® 6x16 offer maximum adsorption capacity for applications that require minimum carbon bed depth due to space limitations. Because of its surface area, density, and strength characteristics, BPL® 6x16 can be reactivated for reuse, eliminating disposal problems.



Applications

Some of the typical applications for BPL® 6x16 activated carbon include:

- Odor control
- Tank vent emissions
- Gas purification
- HVAC
- VOC control
- Catalyst support

Specifications

Iodine Number	1,050 mg/g (min)
Butane Activity by weight	23.3% (min)
Moisture, as packed by weight	5% (max)
Hardness Number	90 (min)
Apparent Density	0.44 g/cc (min)
Screen Size by weight, U.S. Sieve Series	
On 6 mesh	6% (max)
Through 16 mesh	5% (max)

Features

Raw Material
Metallurgical grade bituminous coal
Low ash content coal
Particle Construction
Coal is pulverized and agglomerated with suitable binder
Only carbonaceous materials used in agglomeration step
Granular shape
Activation
Thermal activation with reducing atmosphere (steam); no chemical additives used for pre-conditioning
All carbon structure suitable for multiple cycles of in-situ regeneration or high temperature reactivation

Benefits

Raw Material
Produces a strongly adsorbing pore structure for a broad range of contaminants and concentrations.
Higher density results in high volume activity and economical adsorber design.
Higher purity activated carbon; meets Food Chemical Codex requirements.
Less ash leaves more carbon structure for adsorption.
Particle Construction
Creates optimal transport paths for faster adsorption/desorption, especially important for catalyst and chemical conversion processes.
Generates the hardness and abrasion resistance required for in-situ regeneration and thermal reactivation.
Higher purity carbon with less chance of adverse chemical reactions.
Low void fraction; more efficient contact with gas steam.
Activation
No residual activation chemicals to interfere with application.
Allows for ultimate destruction of adsorbed organics with minimal loss of the original carbon structure.
Allows for the reuse of the carbon and eliminates disposal problems.

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Design Considerations

The design of an activated carbon adsorption system is dependent on the adsorbate type, influent concentration, temperature, flow rate, performance objective, and other factors. Calgon Carbon can help evaluate the suitability of activated carbon to satisfy specific needs and assist in the design of an adsorption system. In addition to the supply of activated carbon, Calgon Carbon offers adsorption systems and carbon reactivation services to meet particular treatment objectives. For additional information on adsorption capacity of organic compounds, please contact the Calgon Carbon Technical Sales Office in your area.

When designing an activated carbon adsorption system, Calgon Carbon Corporation recommends that the dense-packed pressure drop be used for fan sizing, since activated carbon will settle during use. The loose-packed pressure drop will probably occur during startup of the system.

The typical apparent density of this product is 0.49 g/cc (31 lb/ft³). In practice, the loose-packed density is approximately 0.43 g/cc (27 lb/ft³).

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

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

Making Water and Air Safer and Cleaner

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

Calgon Carbon Asia
65 Chulia Street
#37-03 OCBC Centre
Singapore 049513
Tel: +65 6 221 3500
Fx: +65 6 221 3554

Your local representative