

### Description

BPL® 4x6 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. It is the largest mesh size granular carbon that Calgon Carbon Corporation produces, specifically suited to minimize pressure drop in gas phase applications. Because of its surface area, density, and strength characteristics, BPL® 4x6 can be reactivated for reuse, eliminating disposal problems.

### Applications

Some of the typical applications for BPL® 4x6 activated carbon include:

- Solvent Recovery
- Odor Control
- Tank Vent Emissions
- Gas Purification
- HVAC
- VOC Control
- Catalyst Support

### 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.

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

### Specifications

Iodine Number	1,000 mg/g (min)
Butane Activity, by weight	23.3% (min)
Moisture, as packed by weight	2% (max)
Hardness Number	95 (min)
Apparent Density	0.43 g/cc
Mean Particle Diameter	3.7 mm (min)
Screen Size by weight, U.S. Sieve Series	
On 4 mesh	15% (max)
Through 7 mesh	8.0% (max)

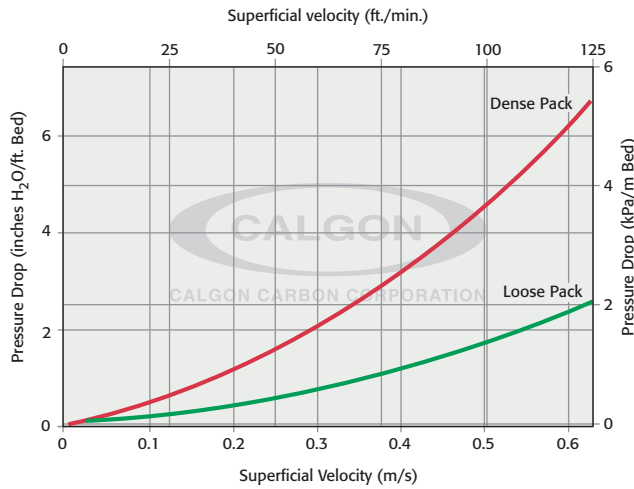
### Features

<i>Raw Materials</i>	
Metallurgical grade bituminous coal	
Low ash content coal	
<i>Particle Construction</i>	
Coal is pulverized and reagglomerated with suitable binder	
No chemical additives; only carbonaceous materials used	
Granular shape	
<i>Activation Process</i>	
Thermal activation with reducing atmosphere (steam)	
All carbon structure suitable for multiple cycles of in-situ regeneration or high temperature reactivation	

### Benefits

<i>Raw Materials</i>	
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	
<i>Particle Construction</i>	
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 stream	
<i>Activation Process</i>	
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	

**BPL® 4x6 Pressure Drop Curve**



**Packaging**

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

**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.



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 office**

