

BPL® 4x6

Granular Activated Carbon

Applications



Typical applications for BPL 4x6 activated carbon include:

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

Description

BPL 4x6 is a virgin granular activated carbon designed for use in gas phase applications. It is a bituminous coal-based product activated using high temperature in a controlled atmosphere. The large mesh size is 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.

Features / Benefits

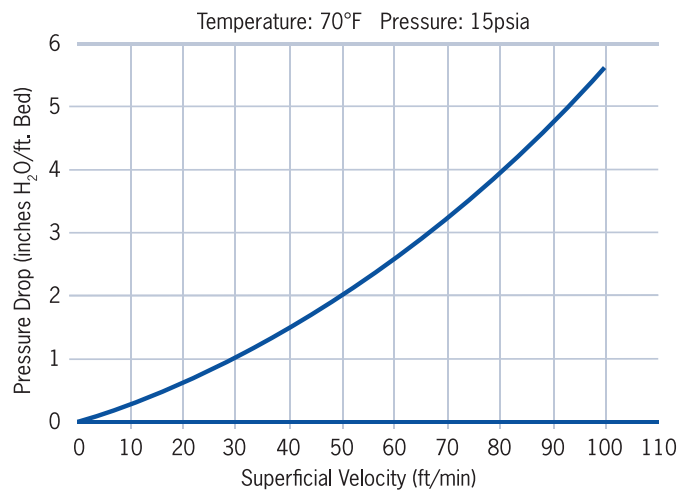
- Metallurgical grade bituminous coal
- Low density
- Granular product
- High pore volume
- Fast adsorption
- Strongly adsorbing pore structure for a broad range of contaminants and concentrations
- Hardness and abrasion resistance required for in-situ regeneration and thermal reactivation
- Low void fraction; more efficient contact with gas stream
- Wide range of absorption pores for more efficient use of carbon that results in a lower carbon dosage and use rate per unit volume
- Spent carbon can be custom reactivated to reduce costs on future fills

Specifications

	BPL 4x6
Butane Activity, wt%	23.3 (min)
Moisture (As Packaged), wt%	2 (max)
Hardness Number	95 (min)
Density (Apparent), g/cc	0.43 (min)
Mean Particle Diameter, mm	3.7 (min)
4 US Mesh [4.75mm], wt%	15 (max)
< 7 US Mesh [2.80mm], wt%	8.0 (max)

Typical Pressure Drop

Downflow pressure drop through bed of BPL 4x6



Design Considerations

The design of an activated carbon adsorption system is dependent on the adsorbate type, influent concentration, temperature, flow rate, performance objective, relative humidity 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.

Safety Message

Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

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