BPL® 4x10
Granular Activated Carbon

Typical applications for BPL 4x10 activated carbon include:
• Solvent Recovery
• Odor Control
• Tank Vent Emissions
• Gas Purification
• HVAC
• VOC Control
• Catalyst Support

Description
BPL 4x10 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 suited to minimize pressure drops in gas phase applications. Because of its surface area, density and strength characteristics, BPL 4x10 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
• Spent carbon can be custom reactivated to reduce costs on future fills

Specifications

<table>
<thead>
<tr>
<th>BPL 4x10</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Butane Activity, wt%</td>
<td>23.3 (min)</td>
</tr>
<tr>
<td>Moisture (As Packaged), wt%</td>
<td>2 (max)</td>
</tr>
<tr>
<td>Hardness Number</td>
<td>93 (min)</td>
</tr>
<tr>
<td>Density (Apparent), g/cc</td>
<td>0.44 (min)</td>
</tr>
<tr>
<td>4 US Mesh [4.75mm], wt%</td>
<td>6 (max)</td>
</tr>
<tr>
<td>&lt; 10 US Mesh [2.00mm] (PAN), wt%</td>
<td>3 (max)</td>
</tr>
</tbody>
</table>

Typical Pressure Drop

Downflow pressure drop through bed of BPL 4x10

Temperature: 70°F  Pressure: 15psia

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.