Carbon Black **8405**  
**Pigment Black 6 • Color Index No. 77266 • CAS 1333-86-4**

**Description**  
Carbon black 8405 is fluffy-grade carbon black pigment used in coatings, plastics and inks. It has a blue tone, relatively low oil absorption, it's easy to disperse and excellent for coloring or tinting vs. lampblack. Carbon black 8405 is stable to sunlight and UV radiation, alkali resistant and contains no calcium sulfate. It complies with specifications: TT-L-70, TT-P-350 and NBS Color 318. Carbon black 8405 meets ASTM D209 Standard Specification for Lampblack Pigment and complies with all respects of ASTM C-979 Standards for Integral Concrete Colors except it affects air-entrainment. Because of the effect on air entrainment, we cannot certify that 8405 complies with ASTM C-979. Standard package is 10 Kg (22 Lb) multiwall paper bags, shrink-wrapped onto pallets of 450 Kg (992 Lbs).  
**Uses:** paint, colorants, plastics, ink and rubber.

**Composition/Typical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon content (%)</td>
<td>99.0</td>
</tr>
<tr>
<td>Ash content (%)</td>
<td>&lt;2.0</td>
</tr>
<tr>
<td>Toluene Extract (%)</td>
<td>0.10</td>
</tr>
<tr>
<td>Oil Absorption (g/100g)</td>
<td>60 – 72</td>
</tr>
<tr>
<td>Weight per Gallon (lbs)</td>
<td>14.99</td>
</tr>
<tr>
<td>Specific Gravity (g/cm³)</td>
<td>1.80</td>
</tr>
<tr>
<td>Surface Area (m²/g)</td>
<td>25</td>
</tr>
<tr>
<td>One pound bulks</td>
<td>0.06671</td>
</tr>
<tr>
<td>Apparent Density (lbs/ft³)</td>
<td>18</td>
</tr>
<tr>
<td>325 Mesh Retention (%)</td>
<td>0.1</td>
</tr>
<tr>
<td>Water Soluble Salts (%)</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Volatile Content (%)</td>
<td>0.5</td>
</tr>
<tr>
<td>Ignition Loss (%)</td>
<td>98</td>
</tr>
<tr>
<td>pH</td>
<td>6 – 8</td>
</tr>
<tr>
<td>Nigrometer Index (Jetness)</td>
<td>99</td>
</tr>
<tr>
<td>Tinting Strength Index</td>
<td>58</td>
</tr>
<tr>
<td>Particle Shape</td>
<td>Spherical</td>
</tr>
<tr>
<td>Particle Size (millimicrons)</td>
<td>75</td>
</tr>
</tbody>
</table>

**Typical Trace Metal Content in Parts Per Million (ppm)**

<table>
<thead>
<tr>
<th>Metal</th>
<th>ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic (As)</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Antimony (Sb)</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Barium (Ba)</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Cadmium (Cd)</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Chromium (III) (Cr)</td>
<td>&lt;0.4</td>
</tr>
<tr>
<td>Copper (Cu)</td>
<td>&lt;0.3</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>Nickel (Ni)</td>
<td>&lt;0.08</td>
</tr>
<tr>
<td>Selenium (Se)</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Zinc (Zn)</td>
<td>&lt;0.5</td>
</tr>
</tbody>
</table>

The values for typical contents and trace metals are provided as general information only. They are approximate values for reference and not specifications utilized in our standard QC procedures for color and consistency.

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