**PRODUCT DATA SHEET:**

**Colloidal Kaolin**

**Colloidal Kaolin 2457 USP / BC**

**Pharmaceutical** - Colloidal Kaolin, USP are used as an internal absorbent, diluent, filler and opacifier in pharmaceutical preparations. It is widely used in creams and lotions as a suspending agent and opacifier. In veterinary applications, it functions as a topical and G.I. absorbent and as a component of poultices.

**Cosmetics** - Colloidal Kaolin is used as an extender and suspending agent in a variety of cosmetic preparations. It is used in lotions, creams, powders and color cosmetics.

### TYPICAL PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median Particle Size (micron)</td>
<td>0.24</td>
</tr>
<tr>
<td>Dry Brightness</td>
<td>88</td>
</tr>
<tr>
<td>Viscosity cps (25°C, 20 rpm)</td>
<td>450 max</td>
</tr>
<tr>
<td>Bulking Value (lbs/gal)</td>
<td>21.7</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.60</td>
</tr>
<tr>
<td>BET Surface Area (m²/g)</td>
<td>17</td>
</tr>
<tr>
<td>Oil Absorption</td>
<td>43</td>
</tr>
<tr>
<td>Hegman Grind</td>
<td>5+</td>
</tr>
<tr>
<td>% Thru 325 Mesh</td>
<td>99.995</td>
</tr>
</tbody>
</table>

### TYPICAL CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SiO₂ - Silicon Dioxide (%)</td>
<td>44.0 - 46.0</td>
</tr>
<tr>
<td>Al₂O₃ - Aluminum Oxide (%)</td>
<td>37.0 - 40.0</td>
</tr>
<tr>
<td>MgO - Magnesium Oxide (%)</td>
<td>0.2 - 0.4</td>
</tr>
<tr>
<td>CaO - Calcium Oxide (%)</td>
<td>0.03 - 0.06</td>
</tr>
<tr>
<td>Fe₂O₃ - Ferric Oxide (%)</td>
<td>0.2 - 0.4</td>
</tr>
<tr>
<td>TiO₂ - Titanium Dioxide (%)</td>
<td>1.5 - 2.0</td>
</tr>
<tr>
<td>Crystalline Silica (max %)</td>
<td>0.10</td>
</tr>
<tr>
<td>Moisture (max %)</td>
<td>1.5</td>
</tr>
<tr>
<td>pH Value</td>
<td>7.0</td>
</tr>
</tbody>
</table>

### USP CHEMICAL ANALYSIS

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pb - Lead (max ppm)</td>
<td>10</td>
</tr>
<tr>
<td>CO₂ - Carbonate</td>
<td>None</td>
</tr>
<tr>
<td>Water Soluble Iron</td>
<td>Trace</td>
</tr>
<tr>
<td>Water Solubles</td>
<td>None</td>
</tr>
<tr>
<td>Acid Solubles (%)</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Storage:** Store in cool location, keep away from heat and direct sunlight. Keep container sealed.

**Handling Precautions:** Please refer to the Colloidal Kaolin 2457 USP / BC Safety Data Sheet.

While the data presented in this information sheet reflects the present state of our knowledge and is believed to be accurate and reliable, it is provided without liability as a courtesy only and is to be used and relied upon at the reader’s sole risk. Readers should make their own determination as to the suitability of any product for a particular use. We recommend that readers conduct their own product trials before using any particular product. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties rights. The recommendations contained herein do not constitute a warranty, either express or implied, as to the fitness or suitability of any product for a particular purpose. For more information and assistance, please contact Technical Services at BSI_regulatory_dept@brenntag.com

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