Montmorillonite (MMT) belongs to the smectite clay group. It has ample of intercalation properties, a robust adsorption, and elevated affinity to organic molecules and heavy metals owing to its intrinsic inorganic layered nanostructure. It has strong preconcentration ability, vast cation exchange capability, and a peculiar layered structure. So this clay material lures the great attention. It is widely utilized in electro analytical methods. The most regularly utilized montmorillonite is K10. It is an acidic catalyst and synthesized by alteration of montmorillonite by calcination and washing with mineral acid. This is probably a proprietary process. It may be utilized crude, or after simple thermal activation. Its acidic properties are boosted by cation exchange or by deposition of Lewis acids.

Applications:

- Catalysis
- Biomedical
- Fire retardancy
- Cooking pots
- Bricks
Montmorillonite K10

Additional Powder Characteristics

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-09-939</td>
<td>99.9%</td>
<td>100nm</td>
</tr>
</tbody>
</table>

Technical Specification

<table>
<thead>
<tr>
<th>Surface Area</th>
<th>pH</th>
<th>Density</th>
</tr>
</thead>
<tbody>
<tr>
<td>220-270 m²/g</td>
<td>3-4</td>
<td>2.3~2.5g/cm³</td>
</tr>
</tbody>
</table>

Properties

✓ CAS No.: 1332-58-7

Chemical Composition

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
<th>Other Metal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Montmorillonite K10</td>
<td>99.9 %</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>
Ordering Information and Stock Availability

- Product: Montmorillonite K10
- Stock Availability: Available
- Distribution: Global
- Packing Sizes: 25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders

Handling Recommendations

- Store in the original container in a dry location.
- Tumble contents prior to use to prevent segregation.
- Open containers should be stored in a drying oven to prevent moisture pickup.

Safety Recommendations

- Download MSDS/SDS NS6130-09-939
- SDS are available from the Nanoshel Website at https://www.nanoshel.com/sections/clay-nanopowders