Alumina, commonly known as aluminium oxide and it is an inert, odourless, white amorphous material often utilized in industrial ceramics. Aluminium oxide is a thermally unstable and insoluble compound that occurs naturally in various minerals for instance corundum, a crystalline variant of the oxide, and bauxite, which is considered as its principal aluminium ore. Most of the aluminium oxide produced is utilized to form aluminium metal and oxygen typically catalyses corrosion in reaction with the metal aluminium. However, when bonded with oxygen to form aluminium oxide, protective coating forms and prevents further oxidation. This adds strength and makes the material less vulnerable to deterioration. It is also an economical substitute for industrial diamonds. Aluminium oxides are employed, as well, for the fabrication of piping components for example elbows, tees, straight pipes, hydro cyclones, reducers, nozzles, and valves.
Additional Powder Characteristics

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-05-522</td>
<td>99.9%</td>
<td>50-60μm</td>
</tr>
</tbody>
</table>

Technical Specification

<table>
<thead>
<tr>
<th>Molecular Formula</th>
<th>Melting Point</th>
<th>Boiling Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Al₂O₃</td>
<td>2,072 °C</td>
<td>2,977 °C</td>
</tr>
</tbody>
</table>

Properties

- Chemical Formula: Al₂O₃
- CAS No.: 1344-28-1

Chemical Composition

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Al₂O₃</td>
<td>Other Metal</td>
</tr>
<tr>
<td>Aluminium Oxide Powder</td>
<td>99.9 %</td>
</tr>
</tbody>
</table>

Ordering Information and Stock Availability

- Product: Aluminium Oxide Powder
- Distribution: Global
- Stock Availability: Available
- 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 NS6130-05-522
- SDS are available from the Nanoshel Website at https://www.nanoshel.com/product/aluminium-oxide-powder

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