ALUMINIUM POWDER

QUICK FACTS

Product: Aluminium Powder
Stock No: NS6130-05-535
CAS: 7429-90-5
Color: Gray
Form: Powder

Aluminium is a chemical element with the chemical formula Al and is a silvery-white, soft, and non-magnetic. It is a ductile-metal in the boron group. It is a promising material due to its low density and its ability to resist corrosion through the phenomenon of passivation. Aluminium and its alloys are playing vital role to the aerospace industry. It is also indispensable in transportation and building industries for instance building facades and window frames. It is most widely utilized as non-ferrous metal and it is really cheap and light material. It also applied in water purification, the manufacture of glass and ceramics, and also in the waterproofing of fabrics. It also manifests extensive applications in ceramic industry and structural composites. Aluminium is mostly utilized due to it is non-toxic, non-absorptive and splinter-proof.

Aluminium is utilized owing to its corrosion resistance, non-pyrophoricity, and mechanical strength. It has also applications in the food industry such as in food additives, food and beverage packaging, and cooking utensils, drinking water (due to its use in municipal water treatment), and aluminium-containing medications. Aluminium is utilized in the fabrication of several compounds such as aluminium hydroxide. The aluminium hydroxide is utilized as an antacid, mordant.

APPLICATIONS

- Cans
- Foils
- Kitchen utensils
- Window frames
- Beer kegs
- Aeroplane parts

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**Additional Powder Characteristics**

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-05-535</td>
<td>99%</td>
<td>40-50μm</td>
</tr>
</tbody>
</table>

**Technical Specification**

<table>
<thead>
<tr>
<th>Molecular Formula</th>
<th>Molecular Weight</th>
<th>Density</th>
<th>Melting Point</th>
<th>Boiling Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Al</td>
<td>26.98 g/mol</td>
<td>2700 kg/m³</td>
<td>660 °C</td>
<td>2700 °C</td>
</tr>
</tbody>
</table>

**Properties**

- Chemical Symbol: Al
- CAS No.: 7429-90-5

**Chemical Composition**

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
<th>Other Metal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium Powder</td>
<td>99 %</td>
<td>8000ppm</td>
</tr>
</tbody>
</table>

**Ordering Information and Stock Availability**

- Product: Aluminium 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 NS6130-05-535
- SDS are available from the Nanoshel Website at https://www.nanoshel.com/product/aluminium-powder