Aluminium (A1) flakes, in a polymer binder, which is often pigmented to create various color appearance. It also exhibits optical properties however for these properties some parameters can be noticed such as flake size, flake surface roughness, spatial orientation of the flakes, and other pigments (additives). The flake orientation is strongly dependent upon the surface treatments of the flakes and the processing conditions. 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.

✓ Fuel cells and batteries
✓ Exothermic applications
✓ Binder agent for master alloy briquetting
✓ Drain cleaners
✓ Thermal and electrical conductivity enhancement in plastics
✓ Granular alternative for highly reflective roofing applications

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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>NS6130-12-000980</td>
<td>&gt;99.9%</td>
<td>40-60μm</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>26.98g/mol</td>
<td>2.7 g/cm³</td>
<td>660 °C</td>
<td>2460 °C</td>
</tr>
</tbody>
</table>

Properties

- ✔ Chemical Formula: Al
- ✔ CAS No.: 7429-90-5

Chemical Composition

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium Flake Powder</td>
<td>&gt;99.9 %</td>
</tr>
<tr>
<td></td>
<td>Other Metal</td>
</tr>
</tbody>
</table>

Ordering Information and Stock Availability

- ✔ Product: Aluminium Flake 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 NS6130-12-000980 from the Nanoshel website at https://www.nanoshel.com/product/aluminium-flake-powder