Magnesium is a lithophile metallic element. It is a major constituent of many mineral groups, involving silicates, carbonates, sulphates, phosphates and borates. It is a major component of many mafic rock-forming minerals, such as olivine, e.g., forsterite Mg$_2$SiO$_4$, pyroxene, amphibole, spinel MgAl$_2$O$_4$, biotite mica, chlorite, serpentine, talc, and clay minerals, such as montmorillonite, as well as less common mineral groups, for instance arsenates, halides, nitrates and oxalates. As many Mg compounds are very soluble, Mg is highly mobile after it’s liberate by weathering, under all environmental conditions.

Anthropogenic sources of magnesium involve fertilizers and liming. Because of its low weight and ability to form mechanically resistant alloys, it is widely used as a structural metal in the building industry and is essential in airplane and missile construction. It is also utilized in flashlight photography, flares and pyrotechnics, involving incendiary bombs, as well as a reducing agent in the manufacturing of pure uranium and other metals from their salts. Magnesium hydroxide (milk of magnesia), chloride, sulphate (Epsom salts) and citrate are applied in medicine.

**APPLICATIONS**

- ✓ fertilizers
- ✓ Liming
- ✓ Medicine
- ✓ Flashlight photography
- ✓ Flares and pyrotechnics
- ✓ Building industry

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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>NS6130-05-536</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>Mg</td>
<td>24.31 g/mol</td>
<td>1.74 g/cm³</td>
<td>648 °C</td>
<td>1090 °C</td>
</tr>
</tbody>
</table>

**Properties**

- Chemical Symbol: Mg
- CAS No.: 7439-95-4

**Chemical Composition**

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

**Ordering Information and Stock Availability**

- Product: Magnesium 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 NS6130-05-536
- SDS are available from the Nanoshel Website at https://www.nanoshel.com/product/magnesium-powder

Visit our website for more information:

www.nanoshel.com | sales@nanoshel.com
Tel: +91 9779550077, 9779238252

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