PHOSPHOROUS POWDER

QUICK FACTS

<table>
<thead>
<tr>
<th>Product</th>
<th>Phosphorous Powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock No</td>
<td>NS6130-12-001373</td>
</tr>
<tr>
<td>CAS</td>
<td>7723-14-0</td>
</tr>
<tr>
<td>Color</td>
<td>white</td>
</tr>
<tr>
<td>Form</td>
<td>Powder</td>
</tr>
</tbody>
</table>

Phosphorus is a multivalent nonmetal of the nitrogen group and it is found in nature in several allotropic forms. It is also an essential element for the life of organisms. Phosphorus is available in several forms such as white, red and black phosphorous, although their colors are more likely to be slightly different. White phosphorous is the manufactured in industry; it glows in the dark. It is spontaneously flammable when exposed to air and is a deadly poison. Concentrated phosphoric acids are utilized in fertilizers for agriculture and farm production. Phosphates are employed for special glasses, sodium lamps, in military applications (incendiary bombs, smoke screenings etc.). Some other applications of phosphorus are pyrotechnics, toothpaste, pesticides, and detergents.

APPLIEDS

- Pyglasses
- Sodium Lamps
- In Military Applications
- Pyrotechnics
- Toothpaste
- Pesticides
- Detergents

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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>NS6130-12-001373</td>
<td>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>P</td>
<td>30.973 g/mol</td>
<td>2.2-2.34 g/cm³</td>
<td>416 °C</td>
<td>10 MPΘ-cm, 20 °C</td>
</tr>
</tbody>
</table>

**Properties**

- Chemical Formula: P
- CAS No.: 7723-14-0

**Chemical Composition**

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphorous Powder</td>
<td>99.9 %</td>
</tr>
</tbody>
</table>

**Ordering Information and Stock Availability**

- Product: Phosphorous 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 NS6130-12-001373
- Are available from the Nanoshel
- Website at https://www.nanoshel.com/product/phosphorus-powder

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