Chromium oxides have attracted much attention recently because of their importance both in science and technology. Special attention has been focused on the formation and properties of chromium oxide (Cr2O3), which is important in specific applied applications such as in high temperature resistant materials, corrosive resistant materials, liquid crystal displays, green pigment, and catalysts and so on. Chromium Oxide Nanoparticles are used as a pigment in paints, inks, and glasses. It is used as a precursor for magnetic pigments (chromium dioxide). Chromium Oxide Nanoparticles can be used as a thermal spray material for protecting the underlying metal surface, and as an additive to corrosion-resistant and wear-resistant materials. Also, Chromium Oxide is used in coatings of bearings, seals, orifices, and valve seals.

**CHROMIUM OXIDE NANOPowDER**

Chromium Oxide Nanoparticles

**Quick Facts**

- **Product**: Chromium Oxide Nanopowder
- **Stock No**: NS6130-03-309
- **CAS**: 1308-38-9
- **Color**: Green
- **Form**: Powder
- **Symbol**: Cr₂O₃
- **Group**: Chromium 6/Oxygen 16

**Electronic Configuration**: Chromium [Ar] 3d5s1/Oxygen [He] 2s2 2p4

**APPLICATIONS**

- In glasses, inks and paints
- Precursor to the magnetic pigment (chromium dioxide)
- In the process of stropping knives
- Catalyst
- Sensors
- Superconductors and adsorbents
- Corrosive resistant materials
- Liquid crystal displays
- Green pigment

**TECHNICAL SPECIFICATION**

<table>
<thead>
<tr>
<th>Molecular Formula</th>
<th>Molecular Weight</th>
<th>Density</th>
<th>Melting Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cr₂O₃</td>
<td>151.990 g/mol</td>
<td>5.22 g/cm³</td>
<td>2435 °C</td>
</tr>
</tbody>
</table>

**CHEMICAL COMPOSITION**

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium Oxide Nanopowder</td>
<td>99.9%</td>
</tr>
<tr>
<td>Other Metal</td>
<td>1000ppm</td>
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</tbody>
</table>

**ADDITIONAL POWDER CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-03-309</td>
<td>99.9%</td>
<td>60nm</td>
</tr>
</tbody>
</table>

**INTELLIGENT MATERIALS PVT LTD**

Derabassi
Punjab (140507)
INDIA

Tel: +91 9779 559077, 9779238252

**NANOSHEL UK LIMITED**

Chapel House,
Chapel St, Cheshire,
CW12 4AB United Kingdom

Tel: +44 1782 454 144, +44 74 105 48862

**NANOSHEL LLC**

3422 Old Capitol Suit
1305 Wilmington DE - 19808
United States

Tel: +1 646 470 4911

ISO 9001:2015 CERTIFIED COMPANY