High Vacuum Grease

Product Description
High Vacuum grease is a stiff silicone compound and is an excellent candidate for sealing and lubricating vacuum and pressure systems.

Key Features and Typical Benefits
- Sealing capability under high vacuum and pressure environments up to approximately 10^-4 Pa.
- Resistance to oxidation
- Thermal stability
- Wide operating temperature range: -50°C to 200°C
- Low-volatile
- Non-melting
- Rated suitable for incidental food contact*

*Contact a GE Advanced Materials sales representative or distributor for certification details.

Potential Applications
- Lubrication of plug valves, control valves, flow meter bearings, ceramic plug cocks, and fire extinguisher valves
- Lubrication in water-treatment equipment
- Lubrication for rubber gaskets and seals in high-temperature applications
- Sealant in pressurized and vacuumized systems
- Sealing and lubrication in chemical processing equipment
- Lubricate O-rings on binoculars, telescopes
  - Help prevent fogging of delicate lenses

Chemical Resistance
Resists vegetable and mineral oils, and common gases. It also resists aqueous solutions of inorganic salts, and dilute acids and alkalis. Consult technical staff for specific chemical resistance.

Limitations
- High vacuum grease is not recommended for contact with liquid oxygen and should not be used in applications requiring LOX compatibility.
- With silicone elastomers
- On surfaces to be painted
- As a lubricant in metal bearings

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Translucent White</td>
</tr>
<tr>
<td>Penetration (worked)</td>
<td>230</td>
</tr>
<tr>
<td>Bleed (200°C, 24h)</td>
<td>0.0</td>
</tr>
<tr>
<td>Evaporation (200°C, 24h)</td>
<td>0.6</td>
</tr>
<tr>
<td>Copper Corrosion (100°C, 3h)</td>
<td>no change</td>
</tr>
<tr>
<td>Volume Resistivity</td>
<td>MΩ·m</td>
</tr>
<tr>
<td>Dielectric Strength</td>
<td>kV/0.25mm</td>
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<tr>
<td>Volatile Siloxane (D3-D10)</td>
<td>ppm</td>
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1. US K 2220

Typical property data values should not be used as specifications.
Handling and Safety
- Wear eye protection and protective gloves when handling the product.
- Use the product in a well-ventilated area.

Storage
- Store in a dark, cool place out of direct sunlight.
- Keep out of reach of children.

Shelf Life
- 18 months from date of manufacture when maintained under recommended storage conditions.

Packaging
- 100g tube available in cases of 20
- 1kg can available in cases of 10

Local Contacts

<table>
<thead>
<tr>
<th>Regional Information</th>
<th>Phone</th>
<th>Fax</th>
</tr>
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<tbody>
<tr>
<td>Australia / New Zealand</td>
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