



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.

Typical Properties

Appearance		Translucent White
Penetration (worked) ¹		230
Bleed ¹ (200°C, 24h)	%	0.0
Evaporation (200°C, 24h)	%	0.6
Copper Corrosion ¹ (100°C, 3h)		no change
Volume Resistivity	MΩ·m	1.0 x 10 ⁷
Dielectric Strength	kV/0.25mm	10
Volatile Siloxane (D ₃ -D ₁₀)	ppm	100

¹JIS K 2220

Typical property data values should not be used as specifications.

Key Features and Typical Benefits

- Sealing capability under high vacuum and pressure environments up to approximately 10⁻⁴Pa.
- Resistance to oxidization
- 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

At GE Advanced Materials — Silicones, our versatile materials are the starting point for our creative approach to ideas that help enable new developments across hundreds of industrial and consumer applications. We are helping customers solve

product, process, and performance problems; our silanes, fluids, elastomers, sealants, resins, adhesives, urethane additives, and other specialty products are delivering innovation in everything from car engines to biomedical devices. From

helping to develop safer tires and keeping electronics cooler, to improving the feel of lipstick and ensuring the reliability of adhesives, our technologies and enabling solutions are at the frontline of innovation.



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

Regional Information	Phone	Fax
Australia / New Zealand GE Toshiba Silicones Australia Pty. Ltd. 175 Hammond Road, Dandenong VIC 3175, Australia	+613.9703.7200	+613.9706.7597
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