



TSK5200

Valve and O-ring Lubricant

Product Description

TSK5200 is a stiff grease-type silicone compound and is an excellent material candidate for use as a valve lubricant and sealant where temperature resistance and mechanical stability are required. It is resistant against carbonizing, formation of gum, or volatilizing, and is an effective lubricant for control valves and pressure plug valves, sealant for vacuum and pressure systems, and as a chemical barrier coating.

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/02.5mm	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

- Wide operating temperature range: -50°C to 200°C
- Resistance to water and non-silicone oils
- Good resistance to most chemicals
- Low volatility
- Oxidization stability
- Limited swelling effect on most rubbers and plastics
- Meets AS/NZS 4020:2002 for use in contact with potable water (cold and hot water applications up to 100°C)
- Rated suitable for incidental food contact*

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

Potential Applications

- Lubrication for control valves, pressure valves
- Sealant in pressurized and vacuumized systems
- Sealant for outdoor applications such as utilities and marine, that are exposed to water and the elements
- Rubber and plastic O-ring gaskets and seals
- Dampening material used in dashpots and other electric cushioning applications
- Prevention of sticking between gaskets and metallic surfaces, and to protect gaskets from weathering and wash-out.
- Chemical protective coating

Chemical Resistance

TSK5200 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

- TSK5200 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

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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
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