



TSK551

Electrical Insulating Silicone Compound

Product Description

TSK551 is a grease-like odorless silicone compound. It adheres readily to dry metals, ceramics, rubber, plastics, and insulating resins, and serves to help provide protection against deterioration in insulation due to dust, salt particles, and other contaminants in the air.

Typical Properties

Appearance		Green
Specific Gravity (25°C)		1.03
Penetration (worked) ¹ (25°C)		220
Bleed ¹ (150°C, 24h)	%	1.0
Evaporation (150°C, 24h)	%	0.3
Base oil pour point	°C	-60
Melting Point		None
Volume Resistivity ²	MΩ·m	2.0 × 10 ⁷
Dielectric Strength ³	kV/0.25mm	4.0
Dielectric Constant (60 Hz)		2.8
Dissipation Factor (60 Hz)		0.0002
Arc Resistance ⁴	s	120<

¹JIS K 2220 ²MIL-S-8660B ³JIS C 2380 ⁴ASTM D-495

Typical property data values should not be used as specifications.

Key Features and Typical Benefits

- Excellent dielectric strength
- Low Volatility
- Moisture resistance
- Good thermal oxidization and chemical stability
- Wide operating temperature range: -50°C to 200°C
- Odorless

Potential Applications

- Sealing against moisture in ignition systems in automotive, aerospace, and marine applications.
- Disconnect junctions in electrical wiring systems
- Cable connector and battery terminal sealing.
- Lubricant for switches, o-rings, and enclosure door seals.
- Lubrication for metal to plastic, metal to rubber components and assemblies.
- Electrical assemblies and terminals.

Chemical Resistance

TSK551 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.

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.



GE imagination at work

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

- 180g tube available in cases of 20
- 1kg can available in cases of 10
- 4kg can available in cases of 4

Local Contacts

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