



TSK5542

Silicone Dielectric Insulating Compound

Product Description

TSK5542 is a medium-consistency, grease-like compound based on a silica-thickened dimethyl silicone fluid. It is an excellent candidate for applications requiring dielectric sealing, protective coating, or lubrication of various electric parts.

Typical Properties

Appearance		Translucent, Off White
Specific Gravity (25°C)		1.03
Penetration (worked, 25°C)		280
Bleed ¹ (150°C, 24h)	%	1.0
Evaporation (150°C, 24h)	%	0.4
Base Oil Pour Point	°C	-60
Melting Point		None
Volume Resistivity ²	MΩ·m	2.0 × 10 ⁷
Dielectric Strength ³	kV/0.25mm	8.3
Dielectric Constant (60 Hz)		2.8
Dissipation Factor (60 Hz)		0.0002

¹JIS K 2220 ²MIL-S-8660B ³JIS C 2380

Typical property data values should not be used as specifications.

Key Features and Typical Benefits

- Dielectric properties
- Arc resistance
- Operating temperature range: -50 to 200°C
- Water repellency
- Chemically inactive

Potential Applications

- Moisture and dust protection and sealing in automotive and marine ignition systems
- Moisture sealing for electrical connectors and terminals
- Lubrication for electrical connections, battery terminals
- Lubrication of sliding / turning variable resistors
- Lubrication and surface protection of metal contact switches

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

- 1kg can available in cases of 10
- 15kg pail

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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.



Local Contacts

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