

## Technical Data Sheet

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Safety Data Sheets, product photos, and other information can be obtained by visiting [www.chemtools.com.au](http://www.chemtools.com.au)



# Thermalle™ VOLTGUARD Electrician's Dielectric Grease

PART NUMBER	AVAILABLE SIZE*
CT-TM003-2ML-BL3	2ml Tube (Pack of 3)
CT-TM003-05PT	5ml Syringe
CT-TM003-10PT	10ml Syringe
CT-TM003-50T	50g Tube
CT-TM003-250G	250g Tub
CT-TM003-1KG	1Kg Tub

\*Available colours and/or sizes may change without notice.

### DESCRIPTION

Thermalle™ VOLTGUARD Electrician's Dielectric Grease is a premium, non-toxic silicone-based grease that provides superior electrical insulation, excellent lubrication and water resistance, and high corrosion protection in a wide range of applications. It is non-curing, non-melting, and formulated to withstand extreme temperatures and harsh environments, with an operating range of -50°C to 200°C.

Compatible with most plastics and rubbers, and suitable for use around o-rings and seals, VOLTGUARD is commonly applied to bulbs and connectors, spark plug boots, battery terminals, automotive ignition systems, electrical switches, and more.

### APPLICATION

Ensure all surfaces and components are dry and free of all contaminants and old grease prior to application. Apply by brush, spatula or pneumatic dispenser with good coverage and an even distribution.

Application is recommended in thin cross-sectional thicknesses down to 1mm.

### TECHNICAL DATA

Appearance	Smooth, translucent paste
Silicone Type	Dimethylpolysiloxane
Acidity/Basicity	Neutral
Consistency Work Penetration (@25°C)	350 – 440
Specific Gravity	1.05
Temperature Range	-50°C to +200°C
Drop Point	>300°C
Evaporation	2% max
Oil Separation, WT % (ASTM D1742)	<1%
Bleed	3% max
Water Washout	0.50
Thermal Conductivity	0.11
Dielectric Constant	3.2
Dielectric Strength	20 kV/mK
Volume Resistivity	1 x 10 <sup>15</sup> Ω-cm
Shelf Life	>3 years when stored under recommended conditions

### FIRST AID & SAFETY PRECAUTIONS

**Always refer to Safety Data Sheet/s before use.** Use proper Personal Protection Equipment. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Avoid breathing fumes. Keep away from heat, sparks, open flames, and hot surfaces. This product may produce adverse health conditions, ranging from minor skin irritation to serious systemic effects. It should not be used, stored, or transported until the handling precautions and recommendations as stated in the Safety Data Sheet/s for this product have been fully understood by all persons who will work with the material.

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### STORAGE & TRANSPORT

**Refer to Safety Data Sheet/s for recommendations.** As a general precaution, keep containers tightly closed, protect from sunlight, and do not expose to temperatures exceeding 50°C. Store in a cool, dry place at room temperature (5 – 40°C). Do not return any unused material to its original container. Containers should be secured and stored upright during transit.

### DISCLAIMER

Every effort has been made to ensure the information provided in this document is accurate at the date of publication. Chemtools® Pty Ltd expressly recommends that the user make his/her own assessment to determine the suitability of the product for its intended purpose prior to application. Chemtools® Pty Ltd shall not be responsible for loss, damage, or injury, resulting from the reliance upon, or failure to adhere to, any recommendations or information contained herein; nor from abnormal use of the material; nor from any hazard inherent in the nature of the material.