

8462



Silicone Grease

8462 is a translucent, hydrophobic, silicone dielectric compound that offers premium water repellency and corrosion protection. The main application is to seal, waterproof, lubricate, and insulate both indoor and outdoor electrical connections with a layer of non-hardening dielectric paste. It is electrically insulating but allows current to flow through metal contacts, providing environmental protection without inhibiting connectivity or causing short circuits. It is also good for lubricating and sealing rubber and plastic parts. This silicone-based grease is useful in marine environments and harsh weather conditions.

Features & Benefits

Suitable for high and low voltage applications

Seals, waterproofs, insulates, and lubricates

Prevents corrosion, arcing and pitting

Temperature resistant—does not harden, melt, bleed, dry, freeze, or separate due to temperature fluctuations

Safe on rubbers and plastics

Storage and Handling

Store between 0 and 27 °C in a dry area, away from sunlight (see SDS).



Available Packaging

Part #	Packaging	Net Vol.	Net Wt.
8462-55ML	Cartridge	55 mL	55 g
8462-85ML	Tube	85 mL	85 g
8462-1P	Jar	473 mL	475 g
8462-1G	Pail	3.78 L	3.8 kg
8462-18.9L	Pail	18.9 L	19 kg

Properties

Color	Translucent	—
Filler	Silica	—
Base Material	Silicone oil	—
Density	1.0 g/mL	ASTM D1475
Viscosity @ 25 °C	37 Pa·s	Brookfield Engineering labs Inc. IPCTM-65- Method 2.4.24.4
Resistivity	2.8 x 10 ¹⁶ Ω·cm	GUIDE ENG V02
Dielectric Strength	1 300 V/mil	ASTM D149
Thermal Conductivity @ 25 °C	0.2 W/(m·K)	ASTM E1461
Evaporation Loss, 22 h @ 165 °C		ASTM D2595
Aluminum	0.11 %	
Glass	0.01 %	
Oil Separation, 30 h @ 165 °C	0.09 %	ASTM D6184
Copper Corrosion, 24 h @ 100 °C	2a Shiny	ASTM D4048
Dropping Point	<308 °C	ASTM D2265
Worked Penetration, ½ scale	310	ASTM D1403
Water Washout @ 38 °C	1.22 %	ASTM D1264
Bearing Dried @ 77 °C		
Rust Preventive, 48 h @ 52 °C		ASTM D1743
Bearing A, B, C	Pass	
Resistance, 168 h @ 25 °C		IP 220
Distilled Water	Pass	
50/50 Distilled Water/Ethanol	Pass	
Service Temperature Range	-50–250 °C	—
Shelf Life	5 y	—

Application Instructions

Read the product SDS for more detailed instructions before using this product.

1. Wear protective gloves.
2. Clean and dry the surface with a lint-free cloth or brush and a zero-residue cleaning solvent, such as MG #824 Isopropyl Alcohol.
3. Apply an adequate amount of grease to cover and protect the contact.

Packaging Specifications

Dimensions below are for 8462-55ML size cartridge.

Length	11.8 mm
Outside Diameter	2.52 cm
Max. Operating Pressure	100 psi (6.9 bar)

Disclaimer: This information is believed to be accurate. It is intended for professional end-users who have the skills required to evaluate and use the data properly. M.G. Chemicals Ltd. does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.