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

Available Packaging

Cat. No.	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

Contact Information

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Properties

Color	Translucent	
Filler	Silica	
Base Material	Silicone oil	
Density	1.0	g/mL
Viscosity	37	Pa·s
Resistivity	2.8×10^{16}	Ω·cm
Dielectric Strength	1 300	V/mil
Thermal Conductivity @ 25 ˚C	0.2	W/(m·K)
Evaporation Loss, 22 h @ 165 ˚C		
Aluminum	0.11	%
Glass	0.01	%
Oil Separation, 30 h @ 165 ˚C	0.09	%
Copper Corrosion, 24 h @ 100 ˚C	2a	Shiny
Dropping Point	<308	˚C
Worked Penetration, ½ scale	310	
Water Washout @ 38 ˚C, Bearing Dried @ 77 ˚C	1.22	%
Rust Preventive, 48 h @ 52 ˚C Bearing A, B, C	Pass	
Resistance, 168 h @ 25 ˚C		
Distilled Water	Pass	
50/50 Distilled Water/Ethanol	Pass	
Service Temperature Range	-50–250	˚C

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Application Instructions

Read the product SDS before using this product (downloadable at www.mgchemicals.com).

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.

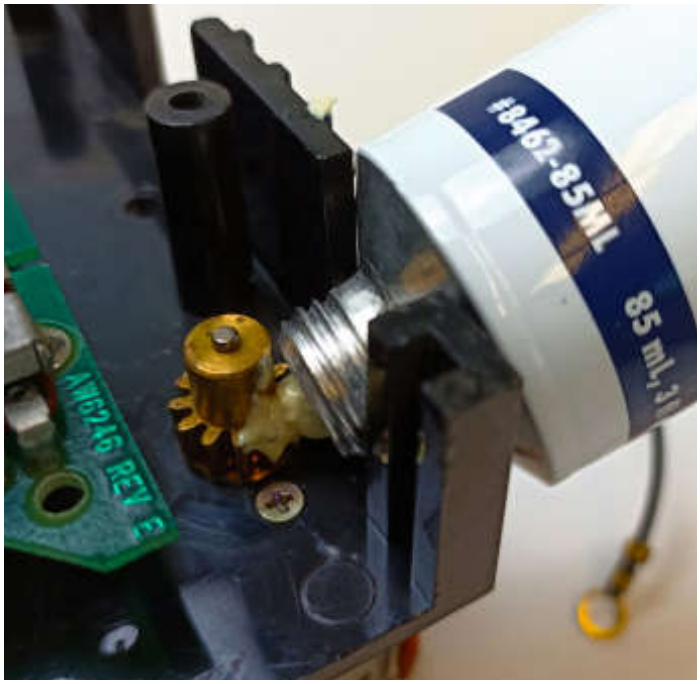
Storage and Handling

Store between 0 and 30 °C in dry area to minimize settling (see SDS).

Packaging Specifications

Dimensions below are for 8462-55ML size cartridge.

Length	11.8 cm
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.