Carbon Conductive Greases

Improves and protects electrical connections

Features and Benefits:

- Ensures continuous electrical contact between pitted, scratched, loose, or vibrating connectors
- Prevents arcing, pitting, hotspots, and welds
- Prevents corrosion
- Lubricates
- Repels water and humidity
- Safe on plastics
- Thin bond line capabilities

Applications:

- Audio jacks
- Automotive connectors
- Battery terminals
- Bus bars
- Light sockets
- Headlights
- HVAC connections
- Ground connections
- Rotating connections
- Power cords and jacks
- Slip Rings
- Plugs and sockets
- Slide connectors
- Sound systems

We offer three Carbon Conductive Greases:

846 Carbon Conductive Grease

A smooth creamy grease for lubricating and improving electrical connections between moving parts.

- Reliable performance
- Wide service temperature range
- Economical

8481 Premium Carbon Conductive Grease

Similar to the 846, but with improved thermal stability and corrosion resistance.

- Extra-strong corrosion resistance, withstands over 300 hours of salt fog exposure.
- Resists separation
- Silicone Free

847 Carbon Conductive Assembly Paste

A smooth stiff paste designed to fill gaps and improve connections between non-moving parts without bleeding, separating, or migrating.

- Bleed resistant
- Resists separation
- Silicone Free

Carbon Conductive Greases Comparison Chart

Cat. Number	846	8481	847
Conductive Filler	Carbon	Carbon, Graphite	Carbon
Base Material	Silicone oil	Synthetic oil	Synthetic oil
Shelf Life	5 yr	5 yr	5 yr
Physical Properties			
Color	Black	Black	Black
Odor	Odorless	Odorless	Odorless
Density @25 °C	1.05 g/mL	1.01 g/mL	1.07 g/mL
Viscosity	Thixotropic	Thixotropic	Thixotropic
Evaporation Loss [a)]	2.6%	2.0%	0.3%
Oil Separation [b)]	0.4%	5.0%	1.8%
Dropping Point	>304 °C	>300 °C	>304 °C
Water Washout @38 °C	1.3%	0.9%	0.2%
Worked Penetration [c)]	269	315	174
Oil Viscosity Index [d)]	N/A	>110 °C	>110 °C
Lubrication	Very high	Very high	Very low
Bleed Resistant	No	Yes	Yes
Emcor Rust Test [e)]	#1	#0	#3
Electrical Properties			
Volume Resistivity	114 Ω·cm	160 Ω·cm	46 Ω·cm
Volume Conductivity	0.009 S/cm	0.006 S/cm	0.02 S/cm
Thermal Properties			
Thermal Conductivity @25 °C	N/A	0.29 W/(m·K)	N/A
Constant Service Temperature	--50 to 200 °C	68 to 165 °C	-50 to 200 °C

N/A=Not Available a) Evaporation loss tested for 22 hours at 165 °C [329 °F]. b) Oil separation tested for 30 hours at 165 °C [329 °F]. c) 60 strokes, ½ scale
d) High oil viscosity index of over 100 indicates small oil viscosity changes with temperature e) Tested using distilled (DI) water. Emcor corrosion rating is ranked from 0 (no corrosion) to 4 (corrosion).

Available Packaging

25 mL Jar
847-25ML

85 mL Tube
846-80G
8481-1

1 P Jar
846-1P
847-1P
8481-2

1 G Pail
847-1G
8481-3

5 G Pail
846-18.9L