

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 a choice of 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

	8481	846	847
PROPERTIES			
Conductive filler	Carbon, graphite	Carbon	Carbon
Base material	Synthetic oil	Silicone oil	Synthetic oil
Constant service temperature	-68 to 165 °C [-90 to 329 °F]	-50 to 200 °C [-58 to 392 °F]	-68 to 165 °C [-90 to 329 °F]
Electrical Properties			
Volume resistivity (ρ_v)	160 $\Omega \cdot \text{cm}$	114 $\Omega \cdot \text{cm}$	23 $\Omega \cdot \text{cm}$
Volume conductivity (σ_v)	0.006 S/cm	0.009 S/cm	0.04 S/cm
Thermal Properties			
Thermal conductivity @25 °C [77 °F]	0.29 W/(m·K)	N/E	N/E
Grease Properties			
Evaporation loss, 22 h @165 °C [329 °F]	2.0%	2.6%	0.3%
Oil separation, 30 h @165 °C [329 °F]	5.0%	0.4%	1.8%
Dropping point	>300°C [>572 °F]	>304 °C [>579 °F]	>304 °C [>579 °F]
Water washout @38 °C [100 °F]	0.9%	1.3%	0.2%
Emcor rust test, distilled water	0, no corrosion	1	3
Worked penetration, 60 strokes, ½ scale	315	269	174
Physical Properties			
Color	Black	Black	Black
Odor	Odorless	Odorless	Odorless
Density @25 °C [77 °F]	1.01 g/mL	1.05 g/mL	1.07 g/mL
Viscosity	128 Pa·s	386 Pa·s	N/E
Lubricant	Yes	Yes	Yes
Bleed resistant	Yes	No	Yes
Corrosion resistant	Yes	Yes	Yes
VOC (Volatile Organic Compound)	4%	0%	0%
Synthetic Oil Properties			
Oil viscosity index	>110 °C [>230 °F]	N/A	>110 °C [>230 °F]
Fire point	321 °C [610 °F]	N/A	321 °C [610 °F]
Flash point	>290 °C [>554 °F]	N/A	>290 °C [>554 °F]

Refer to TDS for more information. N/A=Not Applicable. N/E=Not Established.

a) Value depends on pressure.

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