

Carbon Conductive Grease

Description

846 is an economical, carbon-filled, electrically conductive grease. It lubricates, reduces contact resistance, repels moisture, inhibits corrosion, and prevents static buildup.

Use 846 when you want a lubricating grease that provides great electrical contact and environmental protection. It is excellent for ground connections, rotating connections, rotary switches, variable capacitors, roller inductors, roller bearings, slip rings, slide connectors and potentiometers.

Features and Benefits

- *Resistivity of 114 Ω -cm*
- *Improves electrical connections between irregular, pitted or corroded surfaces*
- *Ensures electrical contact between loose or vibrating parts*
- *Prevents arcing, pitting, hotspots and welds*
- *Reduces mechanical wear*
- *Inhibits corrosion*
- *Broad service temperature range of -50 to 200 °C (-58 to 392 °F)*

Usage Parameters

Properties	Value
Shelf life	5 y

Temperature Ranges

Properties	Value
Constant service temperature	-50 to 200 °C [-58 to 392 °F]
Storage temperature limits ^{a)}	-40 to 40 °C [-40 to 104 °F]

a) Cold storage avoids material separation and settling. If storing at room temperature, mix thoroughly to disperse filler before use.

Properties

Electrical Properties	Method	Value
Volume resistivity (ρ_v)	Mil-Std-883J Method 5011.6	114 $\Omega \cdot \text{cm}$
Volume conductivity (σ_v)	Mil-Std-883J Method 5011.6	0.009 S/cm
Grease Properties	Method	Value
Evaporation loss, 22 h @165 °C [329 °F]	ASTM D 2595	2.6%
Oil separation, 30 h @165 °C [329 °F]	ASTM D 6184	0.4%
Dropping point	ASTM D 2265	>304 °C [>579 °F]
Water washout @38 °C [100 °F]	ASTM D 1264	1.3%
Worked penetration, 60 strokes, ½ scale	ASTM D 1403	269
Emcor rust test, distilled water	IP 220	1 ^{a)}
Physical Properties	Method	Value
Color	Visual	Black
Odor	—	Odorless
Density @25 °C [77 °F]	ASTM D 1475	1.05 g/mL
Viscosity @25 °C [77 °F]	IPCTM-65- Method 2.4.24.4	386 Pa·s ^{b)}
Lubricant	—	Yes
Bleed resistant	—	No
Corrosion resistant	—	Yes
VOC (Volatile Organic Compound)	—	0%

- a)** Not more than 3 rust spots visible to the naked eye.
b) Brookfield viscometer at 10 rpm with spindle RV S95.

Storage

Store between -40 and 40 °C [40 and 104 °F] in dry area.

Health, Safety, and Environmental Awareness

Please see the 846 Safety Data Sheet (SDS) for further details on transportation, storage, handling, safety guidelines, and regulatory compliance.

Application Instructions

To apply the grease:

1. Wear protective gloves.
2. Clean and dry the surface being lubricated with a lint-free cloth or brush and a zero-residue cleaning solvent, such as MG 824 Isopropyl Alcohol.
3. Apply a thin, even layer of grease using a spatula or other appropriate applicator.

Attention!

Carbon grease is messy and transfers easily. Be careful not to spread it beyond the intended area.

Packaging and Supporting Products

Cat. No.	Packaging	Net Volume	Net Weight	Packaged Weight
846-80G	Tube	76.2 mL [2.58 fl oz]	80 g [2.82 oz]	0.7 kg [1.5 lb]
846-1P	Jar	495 mL [1.04 pt]	520 g [1.14 lb]	0.55 kg [1.2 lb]
846-3.78L	Pail	3.78 L [3.99 pt]	3.97 kg [8.75 lb]	4.5 kg [9.92 lb]
846-18.9L	Pail	18.9 L [5 gal]	19.8 kg [43.7 lb]	21.4 kg [47.2 lb]

Contact M.G. Chemicals if custom packaging or sizes are required

Technical Support

Please contact us regarding any questions, suggestions for improvements, or problems with this product. Application notes, instructions and FAQs are located at www.mgchemicals.com.

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