



Product Information

www.miller-stephenson.com

TriboSys™ MS-381H Connector Lubricant

Description:

By combining the superior lubricating qualities of Polyphenyl Ether with the cleaning power of a hydrofluoroether azeotrope, Miller-Stephenson has created Connector Lubricant, a formulation that provides the most advanced total treatment for connectors.

Advantages:

- Cleans, lubricates and protects multi-pin connectors
- Reduces insertion forces
- Greatly increases mating cycles (especially important where high pin counts are involved)
- Extends connector life by preventing corrosion and galling
- Removes contaminants and oxides.
- Is non-migrating-contains no silicones.
- Non ozone depleting
- Available with an UV (ultraviolet) indicator
- No interference in electrical continuity
- Nonflammable
- NSN 6850-01-519-8521
- RoHS2 and RoHS3 Compliant

VOC content of MS-381H.....524 g/l

The active ingredient of Connector Lubricant is a six (6) ring polyphenyl ether lubricant. This lubricant will help protect metal connector surfaces from excessive wear, when subjected to hundreds of mating cycles, thereby increasing the life of the connectors. It will also reduce insertion forces and provide corrosion protection in harsh environments.

Polyphenyl ethers (PPE) are very viscous fluids and only a very thin film is required. Connector Lubricant MS-381H is a 1% PPE concentration is at the proper concentration for connectors operating at room temperatures where there is little or no vibration. Higher concentrations are available in Bulk formulations.

Maximum Operating Temperatures

Estimated 20 year film life 230°F/110°C
Estimated 5 year film life 257°F/125°C

Note: Higher temperatures result in shorter film life.

Physical Properties: 6-ring Polyphenyl Ether

Surface Tension 54.2 dynes/cm

Evaporation Loss (ASTMD-972) 6.5 hrs.

400°F/204°C @ 760mm 0.04%

500°F/260°C @ 760mm 0.50%

500°F/260°C @ 140mm 1.10%

Oxidation – Corrosion wt.change of metals, mg
ASTM D 4636 (FTM 791-5307/5308) 600°F, 48h

Aluminum 0.04

Titanium 0.02

Steel 0.02

Copper 0.14

Silver 0.03

Thermal Stability 836°F/447°C

Low-Temperature Performance: Performs consistently over a wide range of low temperatures to – 20°C.

Electrical Properties: 6-ring Polyphenyl Ether

Dielectric Constant 60cy 1kc 10kc 100kc
(@ 77°F/25°C) 4.54 4.54 4.55 4.53

Resistivity @ 77°F/25°C @ 500VDC 1.56 x 10¹⁴ohm-cm

Dielectric Strength 43 Kv

Safety Data Sheet is available upon request.

Disclaimer: The manufacturer shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use or inability to use this product. User shall determine the suitability of the product for his intended use and user assumes all risk and liability in connection therewith.

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For technical information call 800.992.2424 or 203.743.4447
For product sales: CT 800.442.3424, CA 800.771.8161, IL 800.447.4866, Canada 800.307.2199
www.miller-stephenson.com

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