Product Information

www.miller-stephenson.com

TriboSys™
Fluorinated Synthetic Lubricant

Description

TriboSys™ Thin Film Lube contains Krytox™ GPL greases (PFPE oil thickened with PTFE), which are packaged into convenient fourteen-ounce aerosols (MS-120X). This packaging provides an easy solution for lubricating hard to reach places with pinpoint accuracy. Also, available in non-aerosol packaging (MS-120XB), for larger volume applications, which can be applied by spraying, dipping or wiping. The low surface tension of the solvent carries the grease into tight crevices. Also available with Krytox™ oils.

The PFPE Synthetic Greases, in addition to having a wide operating temperature range (-60°F to 550°F), are chemically inert, non-migrating, insoluble in hydrocarbons, water, steam and solvents. They have low vapor pressure and low outgassing characteristics. They are oxygen compatible, which makes it safe for oxygen service.

ADVANTAGES:

- Evaporates quickly
- Compatible with most plastics, elastomers and metals
- Contains no silicone
- Chemical and thermal stability
- Nonflammable
- Non-ozone depleting chemicals
- RoHS compliant

TYPICAL PROPERTIES OF KRYTOX™ GPL OILS*

Density** .....1.91 to 1.95g/ml @ 75°F/24°C
Viscosity Range*……82 to 1532 cSt @ 68°F/20°C
5 to 42 cSt @ 212°F/100°C
Surface tension .....16 to 20 mN/m (dyn/cm) @ 79°F/26°C
Refractive index** .....1.296 to 1.301 nD25

*Viscosity may vary within +/-10%.
**Increases slightly with increasing molecular weight.

PROPERTIES OF SOLVENTS

Liquid density .....1.58 g/cc @ 77°F/25°C
Boiling point .....130°F/55°C
Vapor pressure .....226 mmHg @ 77°F/25°C
Flash point .....None
Ozone depletion 0.00
VOC Content .....0 gms/l

Plastic Compatibility of the Solvents:

(Immersion: 15 Minutes at Room Temperature)

Polyethylene	Acetal
Polyphenylene Oxide, PPO	Epoxy
Polyester, PET,PBT	Liquid Crystal Polymer
Polyimide, PI,PEI,PAI	Phenolic
Polyetherketone, PEK	PTFE, ETFE
Polyaryletherketone, PEEK	CPVC, PVC
Polyarylsulfone	Ionomer
Polypropylene	Polysulfone
Polyphenylene Sulfide, PPS	Polystyrene
ABS	

Note: Test for compatibility before use.

Elastomer Compatiblity of the Solvents:

(Immersion: 15 minutes at Room Temperature)

Buna N, NBR, Nitrile	Buna S, SBR, GRS
Butyl Rubber, IIR	Chlorosulfonated PE
EPM, EPDM	Polysulfide
Natural Rubber, Isoprene	Neoprene
Urethane	Viton™ B
Silicone	

Note: Test for compatibility before use.

Metal Compatibility of the Solvents:

(2 weeks at 212°F/100°C in sealed tubes)

Zinc[1]	Aluminum
Stainless Steel	Copper[1]
Brass[1]	

The solvent is not compatible with strong bases; therefore, contact with highly basic process materials is not recommended.

Safety Data Sheets (SDSs) are available upon request.

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