

## TriboSys™ Fluorinated Synthetic Lubricant

### Description:

**TriboSys™** Thin Film Lube contains Krytox™ GPL oils, which are packaged into convenient fourteen-ounce aerosol (MS-110XC). This packaging provides an easy solution for lubricating hard to reach places with pinpoint accuracy. The low surface tension of the solvent carries the oil into tight crevices. Also, available in non-aerosol packaging (MS-110XCB), for larger volume applications, which can be applied by spraying, dipping, or wiping. Also available with Krytox™ grease.

The PFPE Synthetic Oils, 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
- RoHS2 and RoHS3 compliant
- VOC Content Exempt

### Typical Properties of the Oils

#### MS-1103C/1103CB

Temperature Range	-60°C/-76°F to 154°C /310°F
Viscosity Range	
@ 20°C/68°F	82
@ 100°C/212°F	5
ISO Grade of Base Oil	32
Oil Viscosity Index	92

#### MS-1104C/1104CB

Temperature Range	-51°C/-60°F to 179°C /355°F
Viscosity Range	
@ 20°C/68°F	177
@ 100°C/212°F	8.4
ISO Grade of Base Oil	68
Oil Viscosity Index	111

#### MS-1105C/1105CB

Temperature Range	-36°C/-33°F to 204°C /400°F
Viscosity Range	
@ 20°C/68°F	522
@ 100°C/212°F	18
ISO Grade of Base Oil	150
Oil Viscosity Index	124

#### MS-1106C/1106CB

Temperature Range	-36°C/-33°F to 260°C /500°F
Viscosity Range	
@ 20°C/68°F	822
@ 100°C/212°F	25
ISO Grade of Base Oil	220
Oil Viscosity Index	134

#### MS-1107C/110CB

Temperature Range	-30°C/-22°F to 288°C /550°F
Viscosity Range	
@ 20°C/68°F	1535
@ 100°C/212°F	42
ISO Grade of Base Oil	460
Oil Viscosity Index	145

### 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 Compatibility 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 <sup>1</sup>	Aluminum
Stainless Steel	Copper <sup>1</sup>
Brass <sup>1</sup>	

<sup>1</sup>Slight discoloration with water present.

**Note:** Test for compatibility before use.

**Safety Data Sheets (SDSs) are available upon request.**

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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

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