



Product Information

www.miller-stephenson.com

MS-780 / 782 Vertrel™ XF Cleaning Agent

Description:

MS-780 (Aerosol) and MS-782 (Bulk Liquid) are a hydrofluorocarbon fluid which is ideally suited for medical applications involving cleaning and rinsing, water dispersion, particulate removal, fluorocarbon lubricant cleaning, and oxygen service cleaning. Unique physical properties include high density, low viscosity and low surface tension, making it ideal for cleaning light oils and particulate matter from metal and non-metal parts.

Advantages:

- Evaporates quickly
- Leaves no residue
- Nonflammable
- Compatible with most plastics, elastomers and metals
- Chemical and thermal stability
- Non-ozone depleting
- VOC exempt
- NSN 6850-01-460-4914 (Aerosol)
- RoHS2 and RoHS3 Compliant

Properties of the Solvent:

(Immersion: 15 Minutes at Room Temperature)

Liquid density.....	1.58 g/cc
Boiling point.....	130°F/55°C
Vapor pressure.....	226 mmHg
Surface tension.....	14.1 dyn/cm
Viscosity.....	0.67 cPs
Heat of vaporization.....	31.0 cal/g at boiling pt.
Specific heat at 68°F/20°C.....	1.13 kJ/kg°C

Plastic Compatibility:

(Immersion: 15 Minutes at Room Temperature)

- | | | |
|------------------------------|--------------------------|-------|
| • Polyethylene | • Acetal | • ABS |
| • 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 | |

Note: Test for compatibility before use.

Elastomer Compatibility:

(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™ |
| • Silicone | |

Note: Test for compatibility before use.

Metal Compatibility:

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

- | | |
|----------------------|-----------------------|
| • Zinc ¹ | • Aluminum |
| • Stainless Steel | • Copper ¹ |
| • Brass ¹ | |

Vertrel™ XF is not compatible with strong bases; therefore, contact with highly basic process materials is not recommended.

¹Slight discoloration with water present.

Note: Test for compatibility before use.

Safety Data Sheets (SDS) are available upon request.

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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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