

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 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 (MS-782)	131°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
- Polyphenylene Oxide, PPO
- Polyester, PET, PBT
- Polyimide, PI, PEI, PAI
- Polyetherketone, PEK
- Polyaryletherketone, PEEK
- Polyarylsulfone
- Polypropylene
- Polyphenylene Sulfide, PPS
- Acetal
- Epoxy
- Liquid Crystal Polymer
- Phenolic
- PTFE, ETFE
- CPVC, PVC
- Ionomer
- Polysulfone
- Polystyrene
- ABS

Note: Test for compatibility before use.

Elastomer Compatibility:

(Immersion: 15 minutes at Room Temperature)

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

Incompatible with Viton™

Note: Test for compatibility before use.

Metal Compatibility:

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

- Zinc¹
- Stainless Steel
- Brass¹
- Aluminum
- Copper¹

¹Slight discoloration with water present.

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

Note: Test for compatibility before use.

Safety Data Sheets (SDS) are available upon request.

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LIMITATION OF LIABILITY AND REMEDIES: Manufacturer warrants that, at the time of shipment by the Manufacturer, this product is free from defect in material and manufacture. If the product is proved to be defective, the exclusive remedy, at Manufacturer's option, shall be refund of the purchase price or replacement of the defective product, provided written notice of the defect is given no later than one year after the date of shipment by the Manufacturer. Manufacturer shall not otherwise be liable for loss or damages whether direct, indirect, incidental or consequential, regardless of the legal theory asserted, including negligence and strict liability. **Manufacturer expressly disclaims all implied warranties, including the implied warranty of merchantability and the implied warranty of fitness for a particular purpose. There are no warranties which extend beyond the description on the face hereof.**