



Vertrel™ XF Cleaning Agent

MS-780 (Aerosol) NSN 6850-01-460-4914

MS-782 (Bulk Liquid)

MS-780 and MS-782 Vertrel™ XF Cleaning Agent is a hydrofluorocarbon fluid which is ideally suited for applications involving cleaning and rinsing, drying, particulate removal, fluorocarbon lubricant carrier, heat transfer, dielectric fluid, and a cleaning agent for oxygen service. Unique physical properties include a high density, low viscosity and low surface tension, which makes it ideal for cleaning light oils and particulate matter from metal and non-metal parts. Vertrel™ XF can be used to remove PFPE grease and oils and PTFE Release Agents.

ADVANTAGES:

- Evaporates quickly
- Leaves no residue
- Nonflammable
- Compatible with most plastics, elastomers and metals
- Chemical and thermal stability
- Non ozone depleting
- Volatile organic compounds: exempt
- NSN 6850-01-460-4914 (Aerosol)
- RoHS Compliant

VERTREL™ XF PHYSICAL PROPERTIES:

(Measured @ 77°F, unless otherwise noted)

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
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:

(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.

For technical support:
800-992-2424 (8-4 ET) in the U.S.
800-323-4621 (8-4 ET) in Canada.
e-mail: support@mschem.com

www.miller-stephenson.com

Vertrel™, and Viton™ are trademarks of The Chemours Company FC, LLC.

1342-4K

The recommendations made here with and the information set forth with respect to the performance or use of our products are believed, but not warranted to be accurate. The products discussed are sold without warranty, as to fitness or performance, express or implied and upon condition that purchasers shall make their own test to determine suitability of such products for their particular purposes. Likewise, statements concerning the possible uses of our products are not intended as recommendations to use our products in the infringement of any patent.

CONNECTICUT
Miller-Stephenson Chemical Co.,Inc.
55 Backus Avenue
Danbury, Connecticut 06810 U.S.A.
203 743-4447 Fax 203 791-8702

ILLINOIS
Miller-Stephenson Chemical Co.,Inc.
6348 Oakton Street
Morton Grove, Illinois 60053 U.S.A.
847 966-2022 Fax 847 966-8468

CALIFORNIA
Miller-Stephenson Chemical Co., Inc.
12261 Foothill Boulevard
Sylmar, California 91342 U. S. A.
818 896-4714 Fax 818 896-6086

CANADA
Miller-Stephenson Chemical Co.,Inc.
280 Belfield Road
Toronto, Ontario M9W 1H6 Canada
416 675-3204 Fax 416 674-2987