

## MS-752U Ultrapure Specialty Fluid

### Description

Cleaning oxygen service parts is more critical than most other cleaning applications. Particles or residue left behind may hinder the operation of valves, sensors, or controls, causing excessive friction that may lead to potential ignition of explosion. MS-752U is an Ultra Pure grade of Vertrel™ MCA Cleaning Agent. This product is used for the final rinse of parts used in Oxygen Service. This product also can be used for precision and specialty applications in many industries such as Electronics, Military, Aerospace, and Communications. It is ideally suited for removing mineral oil, vacuum oil, wax, heavy grease, cutting oil, stamping oil, hydraulic oil, and gear oil..

### ADVANTAGES:

- Evaporates quickly; Leaves no residue
- <1ppm particulate and NVR levels
- Approved by major gas and aerospace manufacturers
- Listed by ASTM and CGA (ASTM G93; CGA Directory of Cleaning Agents for Oxygen Service)
- PASSES LOX Impact test (NFEN 1797)
- Nonflammable, Non-ozone depleting
- Compatible with most plastics, elastomers and metals
- RoHS compliant

### PROPERTIS OF SOLVENT:

Boiling Point.....102°F/39°C  
 Liquid Density.....1.41 g/cc  
 Vapor Pressure.....464 mmHg  
 Surface Tension.....15.2 dyn/cm  
 Viscosity.....0.49 cPs

### PLASTIC COMPATIBILITY:

(Immersion: 15 minutes at Room Temperature)

- |                       |                        |
|-----------------------|------------------------|
| • Acetal              | • Polypropylene        |
| • PEK, PEEK           | • Polyimides           |
| • PTFE                | • Polyethylene         |
| • Polyester, PBT, PET | • Epoxy-Phenolics      |
| • Polyvinylchloride   | • Liq. Crystal Polymer |

**NOTE:** Acrylic, ABS, and polycarbonate, if under stress, may show slight cracking or crazing damage. Test for compatibility before use.

### ELASTOMER COMPATIBILITY:

(Immersion: 15 minutes at Room Temperature)

- |                       |               |
|-----------------------|---------------|
| • Butyl Rubber        | • Polysulfide |
| • Buna S              | • Neoprene    |
| • Chlorosulfonated PE | • Viton™      |
| • Natural Rubber      | • EPDM        |
| • Buna N              | • Urethane    |
| • Silicone            |               |

**NOTE:** Elastomer swelling and shrinking will, in most cases, revert to within a few percent of original size after air drying. Swell, shrinkage, and extractables are strongly affected by the compounding agents, plasticizers, and curing used in the manufacture of the elastomers. Test for compatibility before use.

### METAL COMPATIBILITY:

(Immersion: 2 weeks at 99°F/37°C)

- Aluminum
- Copper
- Iron

### PURITY SPECIFICTIONS:

Properties	Unit	Specifications
Vertrel™ XF	wt%	62.0 ± 1.0
Trans-1,2-dichloroethylene	wt%	38.0 ± 1.0
Specific Gravity	g/mL	1.41
pH		6.5 – 7.2
Total Purity	wt%	99.999 min
Non-Volatile Residue	ppm, wt	≤1.0 ppm
Particle Count	mg/L	0.00
Moisture	ppm wt	75 ppm max
Acidity (as HCl)	ppm wt	1.0 max
Appearance		Clear, colorless

**Safety Data Sheet (SDS) is available upon request.**

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