



FluoSolv[®] 8200

3M Novec 8200 Replacement Fluid

Technical Information

High-Performance Engineered Fluid

Introduction

FluoSolv[®] 8200 is a clear, colorless, low-odor solvent engineered to replace 1,1,1-trichloroethane (TCA) and perchloroethylene (Perc) in precision film cleaning applications. Designed as an exact drop-in replacement for 3M Novec 8200, it features low surface tension, enhanced solvency, high boiling point, thermal and chemical stability, non-flammability, and exceptional compatibility with film substrates.

Applications

FluoSolv[®] 8200 is optimized for high-throughput, automated film cleaning systems—specifically retrofitting TCA or Perc-based cleaning lines—offering competitive speed and cost-per-clean performance in film and media restoration processes

Material Compatibility

FluoSolv[®] 8200 fluid demonstrates compatibility with a wide range of metals, plastics and elastomers. As with most fluorinated liquids, Novec 8200 fluid will absorb into fluorinated plastics and elastomers over longer exposures.

Key Features & Benefits

- Zero Ozone Depletion Potential (ODP = 0.00)
- Low Global Warming Potential (GWP 55) and short atmospheric lifetime (0.8 years)
- Exempt from U.S. VOC definition; recognized as a Clean Air Solvent by California SCAQMD
- Low toxicity with an 8-hour exposure guideline: 200 ppm

Physical Properties

| Property | NuGenTec FluoSolv® 8200 | HCFC 141b | HCFC-225 |
|----------------------------------|----------------------------|--------------|----------|
| Boiling Point °C | 76 | 32 | 54 |
| Liquid Density (g/mL) | 1.43 | 1.23 | 1.55 |
| Surface Tension (dynes/cm) | 13.6 | 19.3 | 16.2 |
| Solubility of Solvent in Water | <20 ppmw | 210 | 330 |
| Vapor Pressure at 25°C (mmHg) | 109 | 569 | 290 |
| Global Warming Potential (GWP) | 55 | 700 | 180/160 |
| Ozone Depleting Chemical | 0 | 0.10 | 0.03 |
| Volatile Organic Compounds (VOC) | Exempt | Exempt | - |
| Flash point | None | None | None |

Free Solvent Sample and Vapor Degreaser for Testing

NuGenTec offers a small loaner vapor degreaser and a loaner 5-gallon pail to assist with your testing. The loaner vapor degreaser plugs into a standard wall outlet and fits on a standard pallet. This allows you to test our FluoSolv® solvent in your own controlled environment without immediately changing the solvent in your current equipment.

FluoSolv® 8200 is available for purchase in three package sizes:

- 55-gal phenolic lined metal drums
- 5-gal phenolic lined pails
- 1-gal HDPE plastic bottles

For further information about FluoSolv® 8200 for testing or purchasing please contact:

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