



Technical Data Sheet

LENIUM™ FS Vapor Degreasing Fluid

Product Description

LENIUM FS is a non-flammable, azeotropic-like cleaning solution designed to replace nPB, TCE and other hazardous solvents in open-top vapor and vacuum degreasing equipment. It may also be used for manual cleaning operations that require a fast evaporating, non-flammable solution.

LENIUM FS is compatible with most polymeric substrates, elastomers, ceramics and is safe for use with ferrous and non-ferrous alloys.

When to Use

1. When replacing TCE, PERC, nPB or other regulated (HAP, SVHC) solutions with high EHS impact.
2. When removing a combination of straight hydrocarbon soils and/or water-based soils.
3. When removing liquid or solder paste flux residues.
4. When a manual cleaner with fast evaporation and non-flammability is required.

Features and Benefits

- Low Global Warming Potential
- Zero Ozone Depletion Potential
- Does Not Require Acid Acceptance Testing
- Parts Do Not Exit Equipment Hot
- Excellent Stability
- Good Compatibility with Metallics, Plastics, & Elastomers
- Low Surface Tension
- Lower VOCs than Convention Solvents

Properties

Boiling Point	107 °F (42 °C)
Flash Point	None
Specific Gravity (25 °C)	1.35
Viscosity (25 °C)	0.46 cps
Vapor Pressure (20 °C)	360 mm Hg
Vapor Density (20 °C)	3.4
Specific Heat (25 °C)	0.31
Heat of Vaporization	47.8 cal/g
Flammability Limits (Vol %)	none

Soils Removed

- Adhesive and Sealant Residues
- Cutting Fluids
- Drawing Fluids
- Fingerprints
- Fluorinated Fluids
- RMA, No-Clean Fluid Residues
- Silicone Oils
- Water-Soluble Oils



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Equipment

Suitable for use in a variety of commercially available cleaning equipment including open-top and vacuum vapor degreasers.

Process

Manual Cleaning

Apply at full concentration to the desired substrate by brush, pad or cloth.

Vapor Degreasing

Add at full concentration to the tank reservoir(s). See Vapor Degreasing Operating Manual for more information.

Controller Settings

Liquid Temperature Controller Sensor (LTC)	117 °F (47 °C)
High Temperature Controller (HTC)	122 °F (50 °C)
Safety Vapor Controller (SVC)	97 °F (36 °C)
Vapor Up Temperature (VU)	97 °F (36 °C)
Primary Refrigeration Temperature	35-40 °F (2-5 °C)

Environmental/Regulatory

Ozone Depletion Potential (ODP)	Zero
Global Warming Potential (GWP)	257
Volatile Organic Compound (VOC)	589 g/L
National Emission Standards for Hazardous Air Pollutants (NESHAPs)	Not regulated
Superfund Amendments and Reauthorization Act (SARA)	Not regulated
Resource Conservation and Recovery Act (RCRA)	Not regulated

Disposal/Safety

Disposal

Vantage recommends contacting your current or local environmental service company for proper disposal.

Safety

Please see Safety Data Sheet for further information.

Approvals/Testing

Testing

Conforms to **Boeing** D6-17487, BSS7432
Conforms to **Douglas** CSD #1 (*except: Stress Cracking on Acrylics*)
GE Appendix F, Hot Corrosion Testing
SAE ARP 1755B



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Packaging

Available in 50 lb (23 kg) pails and 500 lb (227 kg) drums.

Shelf Life

36 months when stored in original, sealed container above 50 °F (10 °C).



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