



LENIUM[®] FEC

Technical Data Sheet

LENIUM FEC is a high performance solvent cleaner designed to operate in open-top and vacuum vapor degreasers. This proprietary solvent cleaner is a mixture based on hydrofluorocarbons (HFCs) and methanol.

LENIUM FEC is effective in electronic cleaning applications, removing solder fluxes, pastes and ionic residues from circuit assemblies. It also effectively removes adhesives, buffing compounds, drawing oils, fluorinated fluids, greases, hydraulic oils, lapping compounds, resins, inks and silicone oils.

LENIUM FEC does not contribute to ozone depletion and its components are approved by the EPA's Significant New Alternatives Policy (SNAP) as an alternative to ozone depleting substances.

LENIUM FEC is a drop-in replacement for trichloroethylene (TCE), HCFC-141b, HCFC-225, perchloroethylene (PCE), methylene chloride (MeCl) and n-propyl bromide (nPB).

LENIUM FEC leaves low surface residue and is safe for use with ferrous and non-ferrous alloys such as aluminum, copper and copper alloys, magnesium, nickel, steel, stainless steel, titanium and zinc. It is also compatible with many polymeric substrates and elastomers.

LENIUM FEC is supported by a global network of technical representatives, capable of solving the industries most difficult cleaning applications.



LENIUM is a registered trademark of Petroferm Inc.

FEATURES & BENEFITS

- Zero Ozone Depleting Potential
- Electronics Cleaner
- Removes Ionics, Flux, Paste
- Drop-In Replacement
- SNAP Approved Components
- Replaces TCE, HCFCs
- Fast Dry Time
- Non-Flammable
- Good Material Compatibility
- Low Surface Residue/NVR

PROPERTIES

Appearance.....	Clear liquid
Flash Point.....	None
Boiling Point.....	97°F (36°C)
Specific Gravity (25°C).....	1.33
Viscosity (25°C).....	0.58 cps
Vapor Pressure (20°C).....	497 mm Hg
Specific Heat (25°C).....	0.30
Heat of Vaporization.....	54 cal/g
Flammability Limits (vol %).....	6.25-14

PROCESS

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

Controller Settings

Liquid Temperature Controller/Sensor (LTC).....	107°F (42°C)
High Temperature Controller (HTC).....	112°F (44°C)
Safety Vapor Controller (SVC).....	87°F (31°C)
Vapor Up Temperature (VU).....	87°F (31°C)
Primary Refrigeration Temperature.....	35-40°F (2-5°C)

SOILS REMOVED

- Adhesives
- Buffing Compounds
- Drawing Oils
- Fluxes & Pastes
- Fluorinated Fluids
- Greases
- Hydraulic Oils
- Ionic Contamination
- Lapping Compounds
- Silicone Oils

LENIUM FEC

EQUIPMENT

- LENIUM FEC is suitable for use in a variety of commercially available cleaning equipment including open-top and vacuum vapor degreasers.
- Companies requiring new equipment may contact Petroferm for supplier recommendations.

HEALTH & SAFETY

Environmental

LENIUM FEC is a suitable alternative to ozone depleting substances and other materials with high environmental impact.

Health & Safety

LENIUM FEC is a suitable alternative to substances with high exposure hazards.

Fire Risk

LENIUM FEC is a suitable alternative to flammable or combustible materials.

SHELF LIFE

The shelf life for this product is thirty-six (36) months when it is stored in its original, sealed container at room temperature.

However, the product should be inspected after thirty-six (36) months from the date of manufacture prior to customer use.

Typical property data is not intended for specification purposes. Petroferm, its sales agents and distributors make no warranty of merchantability of the product or of product fitness for any particular purpose. This product and all information supplied are used at the purchaser's own risk. The purchaser assumes all risk of use or handling of the product, whether in accordance with directions or not.

ENVIRONMENTAL/REGULATORY

Ozone Depletion Potential (ODP).....	Zero
Global Warming Potential (GWP):.....	.890-1300
Significant New Alternatives Program (SNAP).....	*Approved
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

*LENIUM FEC components

DISPOSAL/SAFETY

Disposal: Petroferm recommends contacting your current or local environmental service company for disposal of this product.

Safety: Please see Material Safety Data Sheet for further information.

Storage: LENIUM FEC should be stored in the original container, preferably above 50°F (10°C), in a ventilated, fire-resistant building.

Packaging: LENIUM FEC is available in 45 lb (20 kg) pails and 500 lb (227 kg) drums.



Petroferm

Advanced Products for Advanced Cleaning

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