

Technical Data Sheet

LENIUM® FHD

Product Description

LENIUM FHD Vapor Degreasing Solvent is a mixture based on hydrofluorocarbons (HFCs) designed to operate in open-top and vacuum vapor degreasers. It can be used in manual cleaning operations requiring low surface residues and extremely fast evaporation. This aerospace approved heavy duty cleaner can effectively remove adhesives, buffing compounds, drawing oils, fluxes, pastes, greases, hydraulic oils, lapping compounds, resins, inks and silicone oils. LENIUM FHD is a highly stable, non-flammable solvent which does not contain hazardous air pollutants (HAPs). It is a drop-in replacement for trichloroethylene (TCE), HCFC-141b, HCFC-225, perchloroethylene (PCE), methylene chloride (MeCl) and n-propyl bromide (*n*PB). LENIUM FHD is compatible with many polymeric substrates, elastomers and is safe for use with ferrous and non-ferrous alloys.

Features and Benefits

- Aerospace Approved
- VOC Content is Half TCE, *n*PB
- Zero Ozone Depleting Potential
- Parts Do Not Exit Equipment Hot
- Excellent Stability
- Good Material Compatibility
- Low Surface Residues

Properties

Specific Gravity (25 °C)	1.33
Viscosity (25 °C)	0.56 cps
Vapor Pressure (20 °C)	496 mm Hg
Vapor Density (20 °C)	3.4
Flash Point	None
Boiling Point	99 °F (37 °C)
Specific Heat (25 °C)	0.31
Heat of Vaporization	48.0 cal/g
Kauri-Butanol (KB) Value	60
Flammability Limits (Vol %)	6.5-11.0

Soils Removed

- Adhesives
- Greases
- Buffing Compounds
- Hydraulic Oils
- Drawing Oils
- Lapping Compounds
- Resins and Inks
- Fluorinated Fluids
- Silicone Oils

Equipment

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

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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)	109 °F (43 °C)
High Temperature Controller (HTC)	114 °F (46 °C)
Safety Vapor Controller (SVC)	89 °F (32 °C)
Vapor Up Temperature (VU)	89 °F (32 °C)
Primary Refrigeration Temperature	35-40 °F (2-5 °C)

Environmental/Regulatory

Ozone Depletion Potential (ODP)	Zero
Global Warming Potential (GWP)	990
Volatile Organic Compound (VOC)	589 g/L
Hazardous Air Pollutant (HAP)	No
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

Approvals

Boeing BAC 5408 Vapor Degreasing Specification (PSD 6-66)

Boeing BAC 5750 Solvent Cleaning

Goodrich Power Systems Mono-Solvent Vapor Degreasing. NO: 914-014-078 to 085

Lockheed Martin EMAP G41.149

Rolls-Royce OMat 1/21E Vapor Degreasing

Testing

Conforms to **Boeing** D6-17487

Conforms to **Douglas** CSD #1 (*except: Stress Cracking on Acrylics*)

ASTM F-483, F-485, F-502, F-519, F-945, F-1110, 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).



ISO 9001:2008



RoHS
Compliant



LEAD FREE

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