



LENIUM[®] XS

Technical Data Sheet

LENIUM XS is a high performance solvent cleaner designed to operate in open-top and vacuum vapor degreasers. This solvent cleaner is a mixture based on n-propyl bromide (*n*PB) and fortified with a high performance stabilizer package.

LENIUM XS provides 2½ to 8 times more stabilization than several leading commercially available brominated solvents. The stabilizer package fully protects against solvent decomposition and subsequent base metal attack of components and equipment.

LENIUM XS is a drop-in replacement for trichloroethylene (TCE), HCFC-141b, HCFC-225, hydrofluorocarbons (HFCs), perchloroethylene (PCE) and methylene Chloride (MeCl).

LENIUM XS is a non-flammable solvent, approved by the EPA's Significant New Alternatives Policy (SNAP) as an alternative to ozone depleting substances.

LENIUM XS effectively removes adhesives, buffing compounds, drawing oils, fluxes, pastes, greases, hydraulic oils, lapping compounds, resins, inks, silicone oils and high melting waxes.

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

FEATURES & BENEFITS

- Increased Stabilization
- Drop-In Replacement
- Very High Solvency
- SNAP Approved
- Aerospace Tested
- Replaces TCE, PCE
- Fast Dry Time
- Non-Flammable
- Good Material Compatibility
- Low Surface Residue/NVR

PROPERTIES

| | |
|----------------------------------|--------------|
| Appearance..... | Clear liquid |
| Flash Point..... | None |
| Boiling Point..... | 156°F (69°C) |
| Specific Gravity (25°C)..... | 1.31 |
| Viscosity (25°C)..... | 0.49 cps |
| Vapor Pressure (20°C)..... | 110.8 mm Hg |
| Evaporation Rate (TCA = 1)..... | 0.96 |
| Specific Heat (25°C)..... | 0.27 |
| Heat of Vaporization..... | 58.8 cal/g |
| Kauri-Butanol (KB) Value..... | 125 |
| Flammability Limits (vol %)..... | 4-7.8 |
| Solubility in Water..... | 240 ppm |
| Solubility of Water..... | 500 ppm |

PROCESS

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

Controller Settings

| | |
|---|-----------------|
| Liquid Temperature Controller/Sensor (LTC)..... | 166°F (74°C) |
| High Temperature Controller (HTC)..... | 171°F (77°C) |
| Safety Vapor Controller (SVC)..... | 146°F (63°C) |
| Vapor Up Temperature (VU)..... | 146°F (63°C) |
| Primary Refrigeration Temperature..... | 35-40°F (2-5°C) |

SOILS REMOVED

- Adhesives
- Buffing Compounds
- Drawing Oils
- Fluxes & Pastes
- Greases
- Hydraulic Oils
- Lapping Compounds
- Resins & Inks
- Silicone Oils
- Waxes

LENIUM XS

EQUIPMENT

- LENIUM XS 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.
- Companies requiring acid acceptance kits, vapor monitoring badges and nPB Super Booster may contact Petroferm for availability.

APPROVALS & TESTING

Approvals

Conforms to Boeing D6-17487
Conforms to Douglas CSD #1 (*except: ASTM F-484*)
Ford TOX number: 173766

Testing

ASTM F-483, F-485, F-502, D-519, F-945, F-1110, ARP 1755B

SHELF LIFE

The shelf life for this product is twenty-four (24) months when it is stored in its original, sealed container at room temperature.

However, the product should be inspected after twenty-four (24) 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, conditions of use being beyond Petroferm's knowledge or control. 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)..... | 0.013-0.018 |
| Global Warming Potential (GWP)..... | Low |
| 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 |
| Acceptable Exposure Limit (AEL)..... | 25 ppm |

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

Packaging: LENIUM XS is available in 55 lb (25 kg) pails and 600 lb (272 kg) drums.



Petroferm

Advanced Products for Advanced Cleaning

Petroferm Inc.

3938 Porett Drive • Gurnee, IL 60031 USA

Tel: +1 847-244-3410 • Fax: +1 847-249-6346

www.petroferm.com

Doc. No. 0100 Rev. No.: 001 Date: 1/08