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Keyvex™ 73DE

Keyvex™ 73DE Engineered Fluid is a high-solvency cleaning fluid designed primarily for heavy-duty vapor degreasing and immersion cleaning applications. It effectively removes heavy greases, oils, waxes, silicones, non-polar flux residues, and other stubborn contaminants from metal and electronic components. With excellent cleaning performance and broad material compatibility, Keyvex™ 73DE provides a cost-effective alternative to n-propyl bromide (nPB or 1-bromopropane), trichloroethylene (TCE), and ozone-depleting hydrochlorofluorocarbons (HCFCs).

Key Performance Characteristics

- High solvency with low surface tension
- Effectively removes heavy greases, oils, waxes, silicones, and non-polar flux residues
- Designed for vapor degreasing and immersion cleaning applications.
- Enables faster cycle times, lower energy consumption, and improved cleaning efficiency.

Applications

- Cleaning solvent for vapor degreasing, immersion cleaning and spray cleaning
- Vapor degreasing for heavy-duty industrial cleaning
- Used in lubricant deposition applications requiring high solvency.
- Used for cleaning aerospace and automotive parts without corrosion risk.

Industries Served

- Aerospace
- Automotive
- Electronics
- Semiconductor

Physical and Chemical Properties

Appearance	Colorless, transparent liquid
Density (25°C), g/mL	1.280
Boiling Point, °C	48
Freezing Point, °C	No data available
KB Value	83
Specific Heat (25°C), J·g ⁻¹ ·K ⁻¹	1.409
Kinematic Viscosity (25°C), mm ² /s	0.2969
Vapor Pressure (25°C), mmHg	262.9
Surface Tension (25°C), dynes/cm	19.9
Dielectric Strength (2.5 mm), kV	49.5
Dielectric Constant (1 MHz)	3.11

Environmental & Regulatory Status

- Ozone Depletion Potential (ODP): 0
- Global Warming Potential (GWP): 47
- No flash point

Materials Compatibility

Metals	Excellent compatibility with most metals, including aluminum, stainless steel, copper, brass, and carbon steel.
Plastics	POM, Epoxy, PA, PEEK, PET/PBT, PE, PP, PTFE.

Elastomers	FFKM, FKM, IIR, PU.
Glass & Ceramics	Demonstrates excellent compatibility with alumina, aluminum nitride, silicon carbide, silicon nitride, zirconia, quartz, fused silica, borosilicate glass and optical glass.

Process Guidance

Recommended Use	Designed for vapor degreasing and immersion cleaning. Can also be used with ultrasonic cleaning where appropriate.
Equipment	Closed-loop vapor degreaser with solvent recovery system and condensation coils.
Operating Range	Operate at the solvent's boiling point under normal vapor degreasing conditions.
Condensation	Maintain effective cooling for efficient condensation and solvent recovery.
Ventilation	Use with adequate ventilation or local exhaust.
Drag-Out Control	Allow parts to drain before removal to minimize solvent loss.
Water Control	Use water separator and avoid excessive water loading.
Distillation	Periodically distill solvent to maintain cleaning performance.
Monitoring	Regularly monitor solvent condition, contamination levels, and equipment performance.

Waste Disposal

Dispose of waste product in accordance with applicable regulations. Do not release into the environment. Recover or recycle the product whenever practical. Refer to the SDS for detailed disposal guidance.

Storage Handling & Shelf Life

- Stored in a clean, dry warehouse, away from heat sources, acids, strong alkalis, and oxidants, and protect from high temperature or direct sunlight.
- This product is a colorless and transparent liquid. Avoid violent vibration during transportation and do not store upside down when stacking.
- This product is volatile. Ensure containers are tightly sealed during storage and transportation.
- Shelf life: 24 months

Packaging

20 L/pail (25kgs) or 200L/drum (250 kgs)

Safety Statement

This document is not a Safety Data Sheet. Before handling, storage, transport, or disposal, users should review the latest Safety Data Sheet and conduct a workplace risk assessment according to local regulations.

Although no closed-cup flash point is reported, vapors may form flammable mixture under certain conditions and in the presence of high-energy ignition sources. Use only with suitable vapor control, ventilation, and equipment grounding.

Limitation/Validation Statement

The information provided represents typical values and should not be treated as product specifications unless expressly stated. Suitability for a specific application should be confirmed by customer testing under actual operating conditions.