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Keyvex™ 71IPA

Keyvex™ 71IPA is a non-flammable precision cleaning fluid based on a hydrofluoroether (HFE) and isopropyl alcohol azeotropic formulation. It combines the excellent material compatibility, low surface tension, and rapid drying characteristics of fluorinated fluids with the enhanced solvency of isopropyl alcohol, enabling effective removal of both polar and non-polar contaminants. The fluid is suitable for vapor degreasing, immersion, ultrasonic, and manual cleaning processes providing residue-free cleaning while protecting sensitive components.

Key Performance Characteristics

- Effective light-duty cleaning of greases, oils, waxes and fingerprints
- Azeotropic solvent blend
- Compatible with a wide range of materials
- Low surface tension allows it to penetrate tight spaces for thorough cleaning
- Non-flammable

Applications

- Precision cleaning, rinsing and drying agent.
- Light-duty cleaning of oils, greases, waxes, fingerprints.
- Suitable for use with co-solvents to remove no-clean flux residues.

Industries Served

- Aerospace
- Electronics
- Medical
- Optics
- Semiconductor

Physical and Chemical Properties

Appearance	Colorless, transparent liquid
Density (25°C), g/mL	1.48
Boiling Point, °C	54.8
Freezing Point, °C	-42
Latent Heat of Vaporization, kJ/kg	125.6
Kinematic Viscosity (25°C), mm ² /s	0.3150
Vapor Pressure (25°C), mmHg	207.02
Surface Tension (25°C), dynes/cm	14.5

Environmental & Regulatory Status

- Ozone Depletion Potential (ODP): 0
- Global Warming Potential (GWP): 310
- No flash point

Materials Compatibility

Metals	Aluminum, Brass, Carbon Steel, Copper, Magnesium Alloys, Molybdenum, Nickel, Stainless Steel (302, 304, 316), Tantalum, Titanium, Tungsten, Copper-Beryllium Alloys
Plastics	ABS, Acetal (POM), Acrylic (PMMA)*, Epoxy, PEEK, PET, Phenolic, Polycarbonate (PC), Polyethylene (PE), Polyimide (PI), Polypropylene (PP), PTFE

Elastomers	EPDM, Fluoroelastomer (FKM/Viton®), Fluorosilicone, Nitrile Rubber (NBR), Silicone Rubber, Butyl Rubber*, Natural Rubber*
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Glass & Ceramics	Alumina, Borosilicate Glass, Fused Silica, Glass-Ceramics, Quartz, Sapphire, Technical Ceramics
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* Compatibility should be verified under actual operating conditions

Process Guidance

Recommended use	Vapor degreasing, immersion, ultrasonic, and manual cleaning.
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Equipment	Use clean, dry equipment constructed from compatible materials.
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Operating range	Operate at the solvent's boiling point with a stable vapor zone.
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Condensation	Maintain effective cooling for efficient condensation and solvent recovery.
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Ventilation	Use with adequate ventilation or local exhaust.
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Drag-Out Control	Allow parts to drain before removal to minimize solvent loss.
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Water Control	Use water separator and avoid excessive water loading
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Distillation	Suitable for continuous or batch solvent recycling.
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Monitoring	Monitor solvent purity and replace or reclaim when contaminated.
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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: 12 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 a 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.