TECHNICAL DATA SHEET (TDS)
ASI-73DE

Product Description

ASI-73DE is a high-performance, non-flammable fluorinated solvent formulated for heavy-duty vapor degreasing and immersion cleaning. It effectively removes oils, greases, waxes, fluxes, and particulates, and is chemically stable throughout repeated vapor cycles due to its azeotropic formulation. ASI-73DE is an environmentally responsible alternative to legacy solvents such as nPB, TCE, and HCFCs.

Key Features

- Strong solvency power (KB Value: 83) for heavy contaminants
- Azeotropic blend – stable composition during vapor cycles
- Low surface tension for deep penetration and fine-feature cleaning
- Non-flammable, no flash point
- High thermal and chemical stability
- Low Global Warming Potential (GWP: 47), Ozone Depletion Potential (ODP: 0)
- Broad compatibility with metals, plastics, and elastomers

Main Applications

- Vapor degreasing of precision electronics and mechanical parts
- Immersion cleaning for fluxes, greases, oils, and low-melting-point waxes
- Carrier fluid for specialty coatings or drying
- Suitable for aerospace, optics, semiconductor, and defense industries

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Typical Physical Properties

Property	Value
Appearance	Clear, colorless liquid
Boiling Point (1 atm)	48 °C
Density (25 °C)	1.280 g/mL
Surface Tension	19.9 mN/m
Kinematic Viscosity (25 °C)	0.2969 mm^2/s
Vapor Pressure (25 °C)	35.06 kPa
Latent Heat of Vaporization	227 kJ/kg
KB Value (Kauri-Butanol)	83
Azeotropic Composition	Yes (Azeotropic Blend)
Flash Point	None
Flammability	Non-flammable
Global Warming Potential (GWP)	47
Ozone Depletion Potential (ODP)	0

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Storage & Transportation

- Store in a cool, well-ventilated area
- Avoid contact with strong acids, strong bases, and strong oxidizers
- Use only with appropriate ventilation when vaporized
- Do not expose to open flame or high-temperature surfaces
- Not intended for medical, cosmetic, or direct human contact use unless explicitly approved by the manufacturer



For additional technical details or purchasing inquiries, please contact ASI Technologies.

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