Orafon FA-374

Technical Data Sheet

Product Description

Orafon FA-374 is a specialty liquid specifically designed to meet the demand for high solubility in the industrial cleaning market. Its safety, non-flammability, environmental friendliness, and low global warming potential make it highly popular in industrial cleaning applications such as steam degreasing. The cleaning agent Orafon FA-374 is a specialty fluid mixture with near-azeotropic characteristics. Due to its exceptional solubility, it serves as an ideal alternative to trichloroethylene (TCE), n-propyl bromide (nPB), aromatic hydrocarbons, perchloroethylene, dichloromethane, and other highly soluble fluids. Additionally, Orafon FA-374 is an excellent substitute for solvents with low to medium solubility (such as HCFC-225, HCFC-141b, PFC, CFC, and water-based cleaners), effectively removing various contaminants. Moreover, this liquid is easy to use, highly reliable, and requires minimal maintenance. It exhibits high solubility and low surface tension in cleaning applications, enabling deep and efficient grease removal.

Features and advantages

- Outstanding cleaning performance and optimal solubility, with the highest power among similar products (Kb value = 70);
- The drying speed is fast, with the optimal boiling point, allowing for immediate processing and use of cleaned components;
- The product maintains the stability of its components (azeotropic-like mixture) during use;
- Maintenance-free: No need to maintain the stabilizer, easy to maintain and use;
- Generally speaking, existing steam degreasing equipment can be used with only minor modifications or without any modifications;
- No need for surfactants: Eliminates the need for additional cleaning steps, achieving residue-free cleaning;
- Recyclable and reusable: reduces ownership costs and environmental footprint;
- Flame retardant, low odor, and low toxicity,
- Outstanding environmental properties: non-ODS chemicals, low GWP, low toxicity;

Physical and chemical properties

Properties	Unit	Orafon FA-374	HCFC-141b	HCFC-225	nPB
Boiling point	°C	39	32	54	71
Density @ 25 °C	g/ml	1.27	1.23	1.55	1.35
Surface tension	mN/m	20	19.3	16.2	25.9
Vapor pressure	kPa	50	75.8	38.6	20.0
Latent heat of	kJ/kg	–	235	145	246
KB value	–	70	56	31	125
Flash point	°C	None	None	None	25
ODP	–	0	0.1	0.03	0.02
GWP	–	Low	630	370	–

WARNING
Orafon FA-374 must be used by an experienced operator personal protective equipment.

Application areas

Oil removal, precision cleaning, high-dissolving flux removal, silicone removal, steam degreasing, cold cleaning, etc. Suitable for removing flux and solder paste in circuit printing and assembly, as well as efficiently eliminating machining oils, particles, binders, and other contaminants in precision metal processing, along with cleaning particles, liquid crystals, and oils from optical glass.

Packing

- 30 kg/barrel
- 250 kg/barrel

Storage

Orafon FA-374 should be stored in a clean, dry, and non high temperature warehouse; During storage and transportation, Orafon FA-374 should be kept away from light, high temperatures, heat sources, acids, strong bases, oxidants, etc. It should not be stored together with acidic or alkaline substances; Orafon FA-374 is a colorless and transparent liquid. Avoid severe shaking during transportation and avoid inversion when stacking.

Hazard Statement

H320 causes serious eye irritation.
H336 may cause drowsiness or dizziness.

H412 is harmful to aquatic organisms and has long-lasting effects.

Preventive instructions

P261 Avoid inhaling dust/smoke/gas/smoke/vapor/ spray.

Material Compatibility

Material Type	Compatible
Metal	Cast iron, Carbon steel, Steel, Brass, Copper, Stainless steel, Aluminium, Aluminium alloys
Plastic	Polytetrafluoroethylene, Polyvinyl chloride, Nylon 6, Phenolic resin, Epoxy resin, Polyethylene, Polypropylene
Rubber & Elastomers	Natural rubber, Fluoro rubber

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