GLUDITEC
Glue & Dispensing Technology

Technical Data Sheet

COVEN 217200

Electronics Fluoride Fluid

COVEN 217200 fluoride fluid is a clear, colorless and low-odor fluid intended to replace ozone-depleting substances (ODSs), compounds with high global warming potential (GWP) and chlorinated materials in many applications. It has a higher boiling point than most CFCs, HCFCs and HFCs, reducing evaporative losses. The low surface tension, low viscosity and strong wettability make it ideal for use in vapor degreasing, electronic display, anti-fingerprint coating solvent, cosmetic wetting agent and cold cleaning. In addition, it has excellent heat transfer ability, good insulation performance, superior environmental performance and high compatibility with a variety of materials make it ideal for use in liquid cooling working medium component in semiconductor manufacturing processes, such as semiconductor dry etching, wafer testing and packaging testing. Its chemical and thermal stability, nonflammability and low toxicity make it useful for other industrial applications such as specialty solvent and heat transfer applications.

PRODUCT FEATURES

- Features: colorless, faint odour, safe and no flash point, insoluble in water, good thermal stability, low surface tension, and excellent material compatibility.
- Advantages: environmentally friendly and clean, safe to use, good insulation performance, no damage to electronic precision equipment, no damage to electronic components and circuits, and it has a certain solubilization capacity for flux and oil

TYPICAL PROPERTIES

Items	Technical
Appearance	Colorless, Transparent
Molecular Mass	264
Boiling Point（1 atm）	76°C
Flash Point	No
Vapor Pressure（25°C）	14.50 kPa
Thermal Conductivity (25°C)	0.0631 W·m^{-1}·K^{-1}
KB	3.57
Dielectric Constant (1 MHz)	9.63
Dielectric Strength (2.5 mm)	≥29.9 kV
Surface Tension (25°C)	14.12 mN·m^{-1}
GWP	55
Odor	Faint odour
Liquid Density (25 °C)	1.432 g·mL-1
Freezing point (1 atm)	-138°C
Autoignition Temperature	375°C
Latent heat of vaporization	125.6 kJ·kg-1
Kinematic Viscosity (25°C)	0.4832 mm2·s^{-1}
Dielectric Loss (1 MHz)	0.00063
Volume Resistivity (25°C)	2.991×1010 Ω·mm
Flammability Range in Air	2.4-12.4%
Acute Inhalation Toxicity	LC50＞20407.7 mg·m-3
ODP	0

DIRECTION OF USE

- Cold cleaner (flex circuits, wipe solvent).
- Cleaning and rinsing agent for vapor degreasing.
- Light-duty cleaning (neat)–particulates, fluorolubes, light oils, fluoropolymers.
- Lubricant carrier Fluorocarbons Hydrocarbons Silicones.
- Specialty solvents, dispersion medium, reaction medium, extraction solvent.
- Spray contact cleaner.
- CFC, HCFC, HFC and PFC replacement agent.
- Heat Transfer Fluid.

STORAGE AND TRANSPORTATION

- Coven 217200 should be stored in a clean, dry warehouse, protecting from high temperature insolation, away from heat sources, away from acids, strong alkalis, oxidants, etc.
- Coven 217200 is a colorless and transparent liquid. Avoiding violent vibration during transportation and avoiding upside-down when stacking.
- Coven 217200 is volatile. Pay attention to the tightness of the product during storage and transportation.

SAFETY AND PRECAUTIONS

- The local regulations on normal protection and industrial hygiene related to chemical handling must be observed, and thermal decomposition products must not be inhaled. Avoiding skin contact with hot substances.
- Do not eat, drink or smoke when using this product. Washing thoroughly after operation. Avoiding release to the environment. Avoiding contact with oxidants (such as chlorine, chromic acid, etc.).
- When using this product, you should follow the information and recommendations provided in our "Chemical Safety Data Sheet".
- When using this product, make sure the room is well ventilated.

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