

# Puretecs GmbH

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## Technical Data Sheet

### IDENTIFICATION:

Product Name: Electronic fluoride liquid FD-40

Synonyms: PERFLUORO COMPOUNDS, C5-18

CAS No.: 86508-42-1

### Technical Specifications:

| Test Items                                                          | SPECIFICATIONS               |
|---------------------------------------------------------------------|------------------------------|
| Appearance                                                          | Colorless transparent liquid |
| Boiling Point (at 760mm Hg) °C                                      | 158°C                        |
| Pour Point °C                                                       | -55°C                        |
| Density (at 25 °C)                                                  | 1781 kg/m <sup>3</sup>       |
| Kinematic Viscosity                                                 | 1.8 cSt                      |
| Absolute Viscosity                                                  | 3.6 cP                       |
| Coefficient of Expansion °C -1                                      | 0.0012                       |
| Specific Heat                                                       | 1.30 J/(g*°C)                |
| Thermal Conductivity                                                | 0.53 W/mk                    |
| Surface Tension                                                     | 16.5 dyne/cm                 |
| Dielectric Strength (0.1" gap)                                      | 49 kV                        |
| Dielectric constant (at 25 °C) 1KHz                                 | 4.9                          |
| Vapor pressure (@ 40°C)                                             | 358 Pa                       |
| Vapor pressure (@ 25°C)                                             | 287 Pa                       |
| Vapor pressure (@ 20°C)                                             | 192 Pa                       |
| Vapor pressure (@ 10°C)                                             | 93.5 Pa                      |
| Vapor pressure (@ 0°C)                                              | 42.7 Pa                      |
| Vapor pressure (@ -10°C)                                            | 21.5 Pa                      |
| Solubility of FD-40 fluoride solution in water(at 25 °C) g/100g     | 0                            |
| Solubility of water in FD-40 fluoridation solution(at 25 °C) g/100g | 0                            |
| Refractive Index                                                    | 1.29                         |
| Electrical Resistivity                                              | 5.1×10 <sup>15</sup> Ω*cm    |

|                         |       |
|-------------------------|-------|
| Flash point             | None  |
| ODP                     | 0     |
| Evaporation Residue,ppm | <1ppm |

**Application:**

- Heavy-duty cleaning (co-solvent) – heavy oils, greases, fluxes
- Medium-duty cleaning – oils, greases, waxes
- Light-duty cleaning (neat)– particulates, fluoro-lubricants, light oils, fluoropolymers
- Lubricant carrier: fluorocarbons, hydrocarbons, and silicones
- Heat Transfer Fluid

**Package:** 20kg/Pail

**Storage:** Storage in shady and cool, dry and ventilated place,keep container closed.