

**Technical Data Sheet (TDS)****FINE-L-KOTE™ FL****Product Numbers 23172, 23170, 23194, 23278****Product Description**

Fine-L-Kote™ FL is an assortment of fluorinated polymer conformal coatings in a low surface tension, low GWP hydrofluoroether (HFE) solvent. They form highly repellant lightweight, thin films, protecting printed circuit boards (PCB) and electronic components against moisture, chemicals and corrosion. They are very easy to apply and very stable. Films are both highly hydrophobic and highly oleophobic, repelling oils, silicones and most solvents. Films provide anti-stiction, anti-migration, anti-wetting, anti-corrosive properties.

The HFE carrier solvent is non-ozone depleting, low in toxicity, RoHS compliant and VOC exempt per U.S. EPA. The low surface tension provides excellent surface wetting especially low stand-off and fine pitch components.

**Typical Product Data and Physical Properties**

| Part Number | % Resin Solids | Typical DFT (Dip) | Viscosity      | UV Traceable |
|-------------|----------------|-------------------|----------------|--------------|
| 23172       | 0.2%           | 0.1 µm            | <1.0 cps       | No           |
| 23170       | 2.0%           | 0.1 – 0.2 µm      | <1.0 cps       | No           |
| 23194       | 4.0%           | 0.3 – 0.6 µm      | 1.0 to 1.3 cps | No           |
| 23278       | 8.0%           | 0.8 -1.3 µm       | 4.5 to 5.5 cps | Yes          |

| Property              | All Fine-L-Kote™ FL            |
|-----------------------|--------------------------------|
| Dry time              | 30 -120 seconds                |
| Pencil Hardness       | >/= H                          |
| Temperature Tolerance | 175°C                          |
| Surface Tension       | 15 dynes/cm                    |
| Contact Angle         | 105° (water); 65° (hexadecane) |
| Carrier Solvent GWP   | 540                            |
| Dielectric Constant   | 3.2                            |
| Dielectric Strength   | >/= 2.8 kV/mil                 |
| Resistance            | >/= 1 x 10 <sup>15</sup> Ω     |
| Dissipation Factor    | 0.002                          |
| Glass Transition (Tg) | 44.5°C                         |
| UL94                  | V-0                            |
| Thermal Conductivity  | 0.1 W/m°K                      |



# TECHSPRAY®

## Technical Data Sheet

### **Technical and Application Assistance**

Chemtronics provides a technical hotline to answer your technical and application related questions. The toll free number is 1-800-TECH-401. Note: This information is believed to be accurate. It is intended to present typical values and intended for professional end users having the skills to evaluate and use the data properly. Techspray does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.