

Galden® D02TS

perfluoropolyether

Galden® PFPE electronic fluids is a line of dielectric fluids with boiling points ranging from 55 °C to 270 °C. Their excellent dielectric properties, high chemical and thermal stability combined with their

capacity to operate at very low as well as elevated temperatures make them ideal for electronic quality testing.

General

| | | |
|-----------------|--|------------------------------------|
| Material Status | • Commercial: Active | |
| Availability | • Africa & Middle East • Asia Pacific • Europe | • Latin America • North America |
| Features | • Chemical Resistant • High Density | • High Heat Resistance |
| Forms | • Liquid | |

Physical

| | Typical Value | Unit |
|--------------------------|---------------|-------------------|
| Density | | |
| -54°C | 1.95 | g/cm ³ |
| 25°C | 1.77 | g/cm ³ |
| Average Molecular Weight | 750 | amu |
| Kinematic Viscosity | | |
| -54°C | 45.0 | cSt |
| 25°C | 1.70 | cSt |
| Surface Tension | 16 | dyne/cm |

Thermal

| | Typical Value | Unit |
|-------------------------------|---------------|----------|
| Boiling Point | 165 | °C |
| Pour Point | -97 | °C |
| Specific Heat Capacity (25°C) | 0.23 | cal/g/°C |

Electrical

| | Typical Value | Unit |
|----------------------------------|---------------|---------|
| Dielectric Constant | 2.10 | |
| Dielectric Strength - 2.54mm gap | 40 | kV |
| Volume Resistance | 5E15 | ohms·cm |

Additional Information

Thermal Conductivity (25°C): 0.07 W/m°C
Coefficient of Expansion: 0.0011 cm³/cm³°C

Notes

Typical properties: these are not to be construed as specifications.

