

Gemini[®] PFPE Electronic Testing Fluids

TH Series

Introduction:

TH series PFPE Electronic Testing Fluids are clear, colorless, odorless, nonflammable, zero ozone depletion potential fluids. They are non-toxic, non-corrosive, high density, wide range boiling point, low surface tension, high dielectric strength, high chemical and thermal stability. They are insoluble in water and compatible with most metals, plastics and elastomers. Its outstanding properties make it useful for many applications like thermal management, dielectric testing media, thermal shock testing media, hermetic seal testing fluid etc.

	TH-41	TH-43	TH-45	TH-47	TH-49
Boiling point °C	80	165	175	203	230
Pour point °C	-110	-97	-97	-85	-77
Molecular weight amu	430	750	760	870	1020
Density g/mL	1.71	1.77	1.77	1.79	1.82
Kinematic viscosity @25°C cSt	0.6	1.7	1.8	2.4	4.4
Kinematic viscosity @-54°C cSt	-	45	-	160	-
Kinematic viscosity @125°C cSt	-	-	0.46	0.55	-
Thermal conductivity W/m-K	0.07	0.07	0.07	0.07	0.07
Specific heat kJ/Kg • °C	0.97	0.97	0.97	0.97	0.97
Surface tension mN/m	16	16	16	16	17
Dielectric strength kV 0.1" gap	40	40	40	40	40
Dielectric constant 1kHz	2.1	2.1	2.1	2.1	2.1
Volume resistivity Ohm • cm	5×10 ¹⁵	5×10 ¹⁵	5×10 ¹⁵	5×10 ¹⁵	5×10 ¹⁵

Features:

- Nonflammable, non toxic, high dielectric strength, no residue after evaporation
- Low surface tension, low viscosity, high density, good penetration
- Good compatibility with most metals, plastics and elastomers, easily recovery by distillation
- Its inert nature enable good compatibility with sensitive materials and do not bond with other chemicals
- Good thermal and chemical stability, thermal transport properties remain unchanged over time

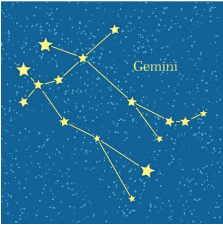
Typical Applications:

- Thermal management in aerospace, semicon, electronics
- Dielectric testing media, hermetic seal testing fluid, thermal shock testing media, sensor testing, burn in testing, high voltage testing, leak testing
- Dielectric medium in power electronics and high voltage transformer

Attentions:

- . Container should be closed promptly after use to avoid evaporation. Always wash hands after treatment.
- . During processing, wear protection clothes, be careful of eye, skin contact.
- . Keep the container sealed and store in cool, well ventilated locations.

Packaging/Transport: 25Kg, 50Kg, 100Kg plastic jug, 200Kg drum. Not classified as dangerous in the meaning of transport regulations.



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