DAIKIN | Positively Innovative

Fluorinated liquid

DAISAVE SS-110

TECHNICAL DATASHEET

DAISAVE SS-110 is an environmentally friendly fluorinated liquid with low GWP (GWP<100※1).

Overview

- Low GWP and zero ozone depletion potential.
- It has no flash point.
- Its liquid state has a wide temperature range, with a boiling point of 110°C and a freezing point of <-130°C.
- It has excellent electrical properties.
- It is highly compatible with various materials such as plastics, elastomers, and metals.

General physical properties

Items	Unit	Value
Boiling Point	°C	110
Freezing Point	°C	< -130
Flash Point	°C	None
Liquid Density	g/cm^3	1.78
Surface Tension	mN/m	15
Kinematic Viscosity	cSt	0.95
Water Solubility	ppm	34
Global Warming Potential (GWP)	-	< 100※1
Specific Heat	KJ/(kg·K)	1.03
Thermal Conductivity	W/m・K	0.064
Coefficient of Expansion	$m^3/m^3 \cdot K$	0.0014
Dielectric Strength [room temperature, 2.5mmgap]	kV	>40
Dielectric Constant [room temperature, 1kHz]	-	2.0
Volume Resistivity [room temperature, DC10V]	Ω·cm	10^{13}

※1：Calculated value

* The above physical properties are representative and not guaranteed.

* All physical property values @25°C unless otherwise specified.

Material Compatibility

Various types of plastics, elastomers and metals were exposed for one week. Following materials are compatible. （Plastics and elastomers are tested at room temperature, and metals are tested at 90°C.）

- Plastics
  ABS、AS, Epoxy glass, PA6, PA66, PBT, PC , PE, PET, PF, PMMA, POM, PP, PPE, PPS, PS, PVC, PTFE, FEP, PFA, ETFE, PVDF, ECTFE

- Elastomers
  Chloroprene rubber, Chlorosulfonated polyethylene rubber, Ethylene propylene diene monomer rubber, Butyl rubber, Nitrile rubber, Natural rubber, Urethane rubber, Silicone rubber, Fluoro rubber (FKM)

- Metals
  Aluminum, Copper, Brass, SUS 304, SUS 316

Examples of applications

- Coolant liquid for semiconductor
- Heat pipe & heat pump fluid
- Cooling liquid for data center

Handling method/Safety information

- Be sure to read the notes on SDS and labels before use.
- This product is intended for general industry, and therefore its adequacy and safety as a raw material for medical purposes cannot be guaranteed.

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