

## DAISAVE SS-110

is a fluorinated liquid with low global warming potential (GWP).

### Overview

- DAISAVE SS-110 is a perfluoroolefin (PFO)
- Low global warming potential (GWP) and zero ozone depletion potential (ODP)
- High dielectric strength
- No flash point, no combustion range
- Easy to handle
- Excellent material compatibility

### Physical Properties

Item	Unit	Value
Boiling point	°C	110
Freezing point	°C	< -130
Vapor pressure	kPaA	3.6
Latent heat of vaporization <sup>1</sup>	kJ / kg	94
Density	kg / m <sup>3</sup>	1777
Absolute viscosity	mPa·s	1.70
Kinetic viscosity	mm <sup>2</sup> / s	0.95
Specific heat	kJ / kg·K	1.03
Thermal conductivity	mW / m·K	64
Surface tension	mN / m	15.0
Refractive index	-	1.29
Expansion coefficient	m <sup>3</sup> / m <sup>3</sup> ·K	0.0014
Water solubility	ppm	34
Solubility in water <sup>1</sup>	ppm	< 0.89
Dielectric strength <sup>1</sup>	kV	> 40
Volume resistance (DC 10V)	Ω·cm	10 <sup>13</sup>
Relative dielectric constant @ 1 kHz	-	2.0
Relative dielectric constant @ 1 GHz	-	2.1
Dissipation tangent @ 1 kHz	-	< 0.0005

ODP	-	0
GWP <sup>2</sup>	-	< 100
Flash point	°C	none
Acute toxicity	mg / kg	LD50 > 300
Permitted concentration	ppm	tbd

The above physical properties are representative and not guaranteed.

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

<sup>1</sup> Measurements taken at room temperature (20 - 25 °C)

<sup>2</sup> Calculated value

## Material compatibility

Various types of plastics, elastomers and metals were exposed for one week at room temperature (plastics, elastomers) or 90 °C (metals).

Following materials are compatible.

- **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, Graphite

- **Elastomers**

Chloroprene rubber, Chlorosulfonated polyethylene, Nitrile rubber, EPDM, Butyl rubber, Natural rubber, Urethane rubber, Silicone rubber, Fluoro rubber, Fluorosilicone rubber

- **Metals**

Magnesium, Aluminum, Titanium, Iron, Nickel, Copper, Zinc, Molybdenum, Silver, Tin, Tantalum, Tungsten, Lead, Brass, SUS 304, SUS 316

## Examples of applications

- **Dilution solvent**

Lubricant solvent, reaction solvent

- **Heat transfer fluid**

Coolant liquid for semiconductor, heat pipe & heat pump fluid, data center immersion cooling

## 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.

## Packing specification

- 20 kg

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