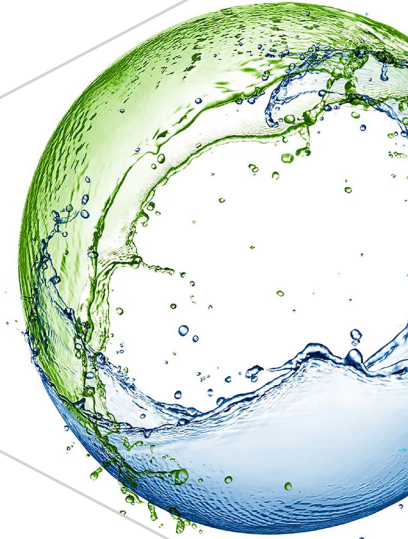


DAISAVE FLUORINATED LIQUID



The DAISAVE series of fluorinated liquids is a brand developed by Daikin featuring low-GWP fluorinated liquids.

The DAISAVE product series combines excellent thermal and chemical stability, zero ozone depletion potential, low surface tension, low viscosity, good solubility, and the drying properties necessary for effective cleaning. In addition to their long-term lifespan, used DAISAVE products can be collected and recycled, making them ideal for companies committed to a circular economy.

Daikin plans to expand the DAISAVE lineup to meet various industry needs, including dry cleaning, particle removal, rinsing, fluorinated greases and coating agents, heat transfer and coolant fluids for chillers, heat pipes and heat pumps, and immersion liquid cooling for data centers.

Features

- ✓ Low GWP
- ✓ Zero ODP
- ✓ No flash point
- ✓ No combustion range
- ✓ Chemically stable
- ✓ Easy to handle

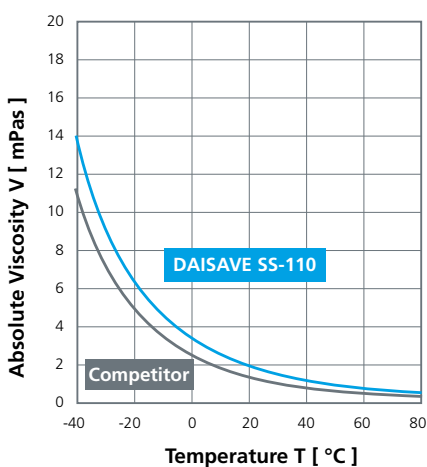
Functionality

- ✓ Precision cleaning of electronic components
- ✓ High electrical insulation property
- ✓ Excellent heat transfer property
- ✓ Coolant
- ✓ Heat pipe and heat pump fluid
- ✓ Reaction solvent

Performance comparison

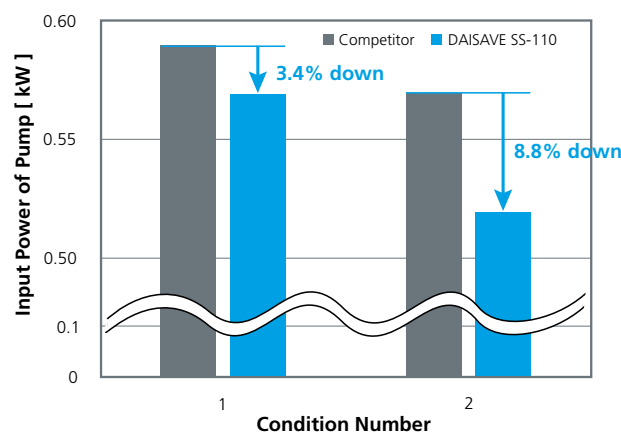
DAISAVE SS-110 and Competitor in cooling application

Absolute viscosity



Cooling performance

Result of Heat Load Test



Condition number	Unit	1	2
Coolant Supply Temp.	°C	10	20
Heat Load	kW	5	10

Scan for more information.



Physical properties

Items	Unit	SS-54	SS-110
Boiling Point	°C	54	110
Freezing Point	°C	-92	< -130
Flash Point	°C	None	None
Liquid Density	g / cm ³	1.39	1.777
Surface Tension [23 °C]	mN / m	16.2	15.0
Kinematic Viscosity	cSt	0.4	0.95
Water Solubility [21 °C]	ppm	630	TBD
Global Warming Potential (GWP)	-	101	< 200
Repeated Dose Inhalation Toxicity (28 days)	ppm	20,000	
Specific Heat	kJ / kgK	1.35	
Thermal Conductivity [20 °C]	W / mK	0.082	0.064
Coefficient of Expansion	m ³ / m ³ K	0.00170	0.0014
Dielectric Strength [2.5 mm gap]	kV	26	
Dielectric Constant [1 kHz]	-	8.9	2.0
Volume Resistivity [DC 10 V, 23 °C]	Ωcm	2.5 · 10 ⁹	1 · 10 ¹³
Kauri-butanol Value	-	16	

* The above physical properties are representative and not guaranteed.

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

Material Compatibility

DAISAVE is highly compatible with a broad range of materials.

Various types of plastics, elastomers and metals were exposed for one week at room temperature.

Compatible materials include:

Plastics

ABS, AS, Epoxy glass, PA6, PA66, PBT, PC, PE, PET, PF, POM, PP, PPE, PPS, PS, PVC, PTFE

Elastomers

Chloroprene rubber, Chlorosulfonated polyethylene, Nitrile Rubber, EPDM, Butyl rubber, Natural rubber

Metals

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

About Daikin

Daikin Chemical Europe is a fully owned subsidiary of Daikin Industries Ltd. Since 1933, Daikin Industries has been at the forefront of research and production in the field of high-performance products, establishing itself as one of the leading manufacturers of fluorochemical materials worldwide.

Today, with production, R&D and technical service bases in Europe, the USA and East Asia, Daikin has a stronger global presence than ever.

Our specialized expertise plays a crucial role across numerous industrial sectors. Utilizing cutting-edge technology, we provide an extensive array of advanced products that find applications in automotive, semiconductors, healthcare, renewable energy, textile and fabric treatment, paper and packaging, and beyond.

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