DATA SHEET Reference: Q759/RFL-SLM2

RFL SLM2 - Fluid for Heat Transfer and Dielectric Test

Product Description

RFL-SLM2 is specially fluid designed for use in dielectric testing and heat transfer two- phase systems.

Properties

- Chemical stability
- Non-toxicity
- Non-flammability
- Very low GWP
- Usability at high and low temperatures
- Very good compatibility with a wide range of plastics, metals and elastomers
- Its favourable viscosity and density characteristics allow for superior heat transfer performance

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Our commercial advisors are at your disposal.

PERFORMANCE	• High Electrical insulation characteristics allow direct cooling of electronics posible. • Small Kinetic viscosity and low freezing point limit the load on the pumps.
COST	• Thermally and chemically stable in use so long-term repeated use posible. • Can be returned for recycling and re-use. • No flash point: Does not require the use of explosión proof equipment.
HSE	• Very low toxicity (refer to the SDS). • Non Ozon Depletion Potential (ODP) and very low Global Warming Potential (GWP). • Non-flammable.

Technical Characteristics

Boiling Point (°C / °F)	49 °C / 120 °F
Thermal Conductivity (W/m-K)	0.059
Flash Point	No
Pour Point (°C / °F)	-108 °C / -162 °F
Surface Tensión (dynes/cm)	10.8
Density (g/cm3)	1.6
Specific Heat (kJ/kg.K)	1.103
Heat of Vaporization – boiling point (kJ/kg)	88
Vapor Pressure (kPa)	40
Solubility Water in fluid (ppm weight)	20
Molecular Weight	316
Critical Temperature (°C / °F)	169 °C / 336 °F
Critical Pressure (MPa)	1.88
Coefficient of Expansion (K-1)	0.0018
Absolute Viscosity (cP)	0.64
Dielectric Strengthe Range, 0.1" gap (kV)	>40
Dielectric Constant (kHz)	1.8
Volume Resistivity (Ohm-cm)	1.00E+13

Applications

Cleaning and Electronic Cooling - Two Phase System

- Dry etching equipment
- Stepper
- IC tester
- CVD lithography
- Coolant for computer servers, sensors, condensers precisión and electronic devices
- Temperature control for environmental test romos
- Heat transfer fluid for thermostat chamber
- Working fluid for heat pipes
- Working fluid fo exhaust heat from manufacturing plants
- Leak tester for ilters and bulbs
- Reliability testing for electronics
- Coolant for rectifiers LEDs and laser generators

Dielectric Testing

	Concentration	Temperature	Time	Voltage
Electric Discharges	100 %	25 °C / 77 °F	30 seconds	21 kV
	100 %	25 °C / 77 °F	60 seconds	24 kV
	100 %	25 °C / 77 °F	60 seconds	70 kV
	100 %	25 °C / 77 °F	30 seconds	31 kV

Packaging, Storage & Shelf Life

- Keep products in closed original packaging and store at room temperatura
- Shelf life is minimum 5 years from production date when kept in recommended conditions
- Available in 8 kg, 15 kg and 250 kg drums

Health, Safety & Environment

Propierties	RFL-SLM2
Ozone Depleting Potential (ODP)	0.00
Global Warming potential (GWP)	<1
Atmospheric Lifetime (years)	0.014
VOC	Yes
Flashpoint	No

Containsn no Reach Substances (on Candidate list, Annex XIV and XVII) / Contains no persistent organic pollutant (EC 850/2004). Contains no Import/Export Hazardous Substances (EU 649 / 2012).

Used polluted product can be returned to us for recycling if regulations permit. Please contact your local sales for more details on our ECOPROGRAM.

Tecnical Support

Contact our technical support via your local sales representative info@solbi-mural.com

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