



DATA SHEET Reference: **Q759/RFL-SLM2**

RFL SLM2 -Fluid for Heat Transfert and Dielectric Test

Product Description

RFL-SLM2 is specially fluid designed for use in dielectric testing and heat transfer in single-phase or 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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| PERFORMANCE | <ul style="list-style-type: none"> • High Electrical insulation characteristics allow direct cooling of electronics posible. • Small Kinetic viscosity and low freezing point limit the load on the pumps. |
| COST | <ul style="list-style-type: none"> • 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 explosion proof equipment. |
| HSE | <ul style="list-style-type: none"> • Very low toxicity (refer to the SDS). • Non Ozon Depletion Potential (ODP) and very low Global Warming Potential (GWP). • Non-flammable. |

Technical Characteristics

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|--|-------------------|
| 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) | 1012 |

Applications

Cleaning and Electronic Cooling - Single Phase System & 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

| Electric Discharges | Concentration | Temperature | Time | Voltage |
|---------------------|---------------|---------------|------------|---------|
| | 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 18 months from production date when kept in recommended conditions
- Available in 8 kg, 35 kg and 255 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 |

Containn 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 producto 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

Adhesive tapes and other industrial products are used to solve various problems in different fields of application. Each product has been developed for a specific application group. However, experience shows that even in similar applications, the requirements may change from case to case. We therefore recommend that you carry out tests to ensure that the product to be used is suitable for your application. Our technical department will provide you with all recommendations based on the knowledge we have gained from our experience, but without obligation.

In accordance with the Annex II of Directive 2011/65/UE (RoHS), including its amendments, we certify that this producto does not contains quantities above 0.1% of Hg, Pb, Cr Vi, PBB, PBDE, DEHP, BBP, DBP, DIBP and above 0.01% of Cd.

This data is based on information that manufacturer believes to be reliable and offered in Good faith. The manufacturer in no evento will be responsible for special, incidental and consequential damages. The user is responsable to the Administrative Authorities (regulations for the protection of the Environment) for the conformity of his installation.