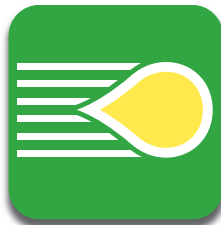


**Very Low Viscosity, Non-Toxic Secondary Refrigerant Antifreeze. Based on Potassium Formate blended with BS6580 proven Corrosion, Scale and Biological Inhibitors.**



Anti-Freeze



Optimum Flow



Non-Toxic



Biodegradable



Corrosion Control



Quality Assured

## Properties:

**COOLFLOW LVF** has been especially formulated from Potassium Formate for use as a Non-Toxic Secondary Refrigerant Antifreeze in Process Cooling, Refrigeration and Air Conditioning systems. It has much improved thermal efficiency in comparison with glycol based solutions.

It contains synergistic corrosion inhibitors to protect metals commonly found in such systems. It has been tested in accordance with BS5117 and found to meet BS6580 corrosion standards for mild & stainless steel, aluminium, copper, brass and cast iron.

Zinc or galvanised components are not recommended for use with closed loop cooling or heating systems.

**COOLFLOW LVF** also contains scale and biological inhibitors to help prevent fouling – thus promoting long operational life and high thermal efficiency.

**COOLFLOW LVF** mixtures are readily biodegradable (90% over ten days) and will not remain in the environment or bio-accumulate.

**COOLFLOW LVF** is supplied Ready-To-Use, premixed with the necessary weight of UltraPure™ water to achieve the desired freeze protection.

**COOLFLOW LVF** is a clear, low viscosity liquid. It is salty to the taste and has a non-pungent but characteristic aroma.

**Density:** 1.2 – 1.4 g/cm<sup>3</sup> depending on inhibitors

**PH:** 8.0 – 9.5 depending on inhibitors.

**Boiling point:** >100°C



## Application

As per BSRIA guide AG 1/2001.1 all pipe-work systems should be clean and free from biological contamination prior to commissioning.

To minimise corrosion air\* ingress and exposure should be minimized. A pressurised system is best.

\* Oxygen feeds the corrosion process which consumes inhibitors.

**COOLFLOW LVF** is supplied as a Ready-To-Use Secondary Refrigerant Antifreeze, as per the table.

COOLFLOW LVF (strength)	Frost Protection °C	Dynamic Viscosity M Pas (cP)	Thermal Conductivity (W/mK)	Refractive Index
LVF20	-20	1.8	0.56	1.3650
LVF30	-30	1.9	0.53	1.3735
LVF40	-40	2.2	0.52	1.3800
LVF50	-50	2.6	0.50	1.3865
LVF60	-60	2.9	0.48	1.3915

When measuring the percentage of **COOLFLOW LVF** use a refractometer.

**Health & Safety:** Please refer to the associated Safety Data Sheet.

**Shelf Life:** 1 - 3 years when stored in sealed containers out of direct sunlight.

**Available in:** 5, 10, 15, 20, 25, 205 & 1,000 litre containers and in bulk tankers.



**SUREFLOW** Support Services ensure that end users and distributors receive the full benefit of working with a specialist manufacturer. Specifically;

- Expert technical advice on all aspects of fluid selection, including Environmental Impact Assessments, Thermal Performance etc.
- Fluid Maintenance Program; for the proactive verification of fluid and system condition.
- Huge stock inventory facilitating same day dispatch and delivery.
- Bespoke formulations for specialist applications.



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