



Kilfrost SF50 INHIBITOR

Multi-metal corrosion inhibitor for closed circuit water systems

Description

SF50 Inhibitor is a concentrated water soluble liquid blend of corrosion inhibitors and pH buffers, designed to provide long lasting protection against corrosion in multi-metal closed circuit water systems, helping to maintain energy efficiency.

Features and benefits

The formulation of SF50 Inhibitor is based on modern organic acid technology (OAT) and free from borates, silicates, phosphates, nitrates, heavy metals and harmful amines. SF50 Inhibitor does not contain any CMR substances (Carcinogenic, Mutagenic, Reprotoxic).

Unlike existing products on the market the proprietary blend of corrosion inhibitors in SF50 Inhibitor work by forming a monolayer on metal surfaces and the formulation is free of gelating silicates, toxic nitrites and mutagenic borates.



- **Effective protection against corrosion**
- **Long lasting protection based on organic acid technology (OAT)**
- **Tested to and exceeds ASTM D-1384 standard test method for corrosion protection**
- **Protects commonly used metallic components typically used in closed circuit water systems, including aluminium**
- **High elastomer compatibility**

Safety

Always keep out of reach of children and read the label before use. A safety data sheet is available on request. SF50 Inhibitor has a shelf life of 2 years in closed original containers and should be stored at room temperature in sealed containers out of direct sunlight.

Available in container sizes 1 litre, 10, 20, 200 and 1000 litres (IBC) containers.

User Guidelines

Kilfrost recommends a two-step chemical cleaning and sanitising protocol. SF50 Inhibitor has been designed to be added to the closed circuit water system after cleaning.

SF50 Inhibitor is designed to provide protection against corrosion for long periods of time. In systems where there is already corrosion or scale, incompatibility within certain mixtures of fluids may occur, and could affect the resulting corrosion protection performance. In such cases, liability cannot be accepted.



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Dosage

1. Multi-metal systems not containing aluminium: 1 litre of SF50 Inhibitor for every 100 litres system water.
2. Multi-metal systems containing aluminium: 2 litres SF50 Inhibitor for every 100 litres system water.

SF50 Inhibitor must not be mixed with other chemicals unless specified by Kilfrost.

Physical Properties

Property	Value
Appearance	Transparent Liquid (colourless & odourless)
Density @ 20°C	1.1 – 1.2 g/cm ³
pH	8.5-9.0
Solubility in water	Fully miscible
Boiling point/range °C	~ 100 °C
Freezing point °C	~ 0 °C
Viscosity @ 20°C	~ 1 mPa.sec

Test and monitoring

It is recommended to check the performance of the fluid at least once a year. Kilfrost offers test services to check the effectiveness of SF50 Inhibitor used in closed circuit water systems.

The Kilfrost Speciality Fluids Division offers a range of heat transfer fluids which are used in a wide variety of heating and cooling applications.

Global leaders for over 80 years, the Kilfrost brand is synonymous with innovation and technical excellence and continues to lead the way in safety critical markets worldwide.



Kilfrost Limited, Albion Works, Haltwhistle, Northumberland, NE49 0HJ
Telephone: +44 (0) 1434 320332 Fax: +44 (0) 1434 321463 Email: info@kilfrost.com

www.kilfrost.com

Version 6703