

ISO 9001:2015
Certificate no: Q820088

Lubricus® FireSafe 46

HF-C Type Fire Resistance Hydraulic Fluid

Description

Lubricus® FireSafe 46 is a water-glycol type fire resistance hydraulic fluid of ISO VG 46 grade. It is designed to replace conventional mineral oils and polyolester based hydraulic fluids in hydraulic systems operate in environment where potential fire hazard exists in case of a hydraulic leak. **Lubricus® FireSafe 46** meets Group 1 (HF-C) requirement.

Lubricus® FireSafe 46 possesses good anti wear, excellent corrosion protection in both liquid and vapor phase, excellent viscosity-temperature characteristic and chemical stability. With proper fluid maintenance, it has practically unlimited service life.

Lubricus® FireSafe 46 is an environmentally fluid as it is biodegradable to a high extent, easy to handle and non-toxic. The fluid components meet the requirement of FDA Specification 21 CFR 178.3570. It does not contain PCB or other chlorinated or brominated components.

Benefits

- ✚ Good Lubricity & Anti-Wear Properties
- ✚ Excellent Corrosion Protection
- ✚ Safe & Non-Toxic
- ✚ Long Service Life
- ✚ Readily Bio-degradable

Applications

Lubricus® FireSafe 46 is suitable for all types of hydraulic systems that recommended HF-C or water-glycol type hydraulic fluids. It is widely used in steel and iron making continuous casting, hot rolling, forging, and die casting equipment. Due to its water-soluble and biodegradable properties, **FireSafe 46** is also recommended for hydraulic systems in water or sewage treatment facilities.

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Compatibility

Lubricus® FireSafe™ 46 is compatible with most seal and hose materials. Natural and polyurethane elastomers and materials that soften and swell in the presence of water should not be used. When choosing **Firesafe 46**, please make sure the system is designed for HF-C water-glycol fluid.

Lubricus® FireSafe™ 46 is compatible with most metallic materials such as steels, cast iron, copper, brass, bronze and anodized aluminum, which are usually applied in mineral oil based hydraulic systems. But lead, zinc, magnesium and cadmium are best avoided.

All water glycols fluids would soften and strip off paints. Tanks internally coating / paint should be removed before filling of water-glycol type of fire-resistant fluids. Stainless steel tank cover is recommended.

INCOMPATIBILITY

Zinc**, Magnesium, Cadmium, Lead
**Zinc and Zinc alloys should not be used in water glycol systems as small quantity of zinc may be dissolved in the alkaline aqueous system, forming zinc hydroxide or soap that may block filters.

Typical Properties	FireSafe 46
ISO Viscosity Grade	46
Appearance	Clear Pale / Red
Viscosity @40°C, cSt	42 ~ 46
Viscosity Index	>180
Density @20°C, g/ml	1.06 ~ 1.08
Flash Point, °C	None
Pour Point, °C	< -40
pH Value @20°C	9.2 ~ 9.4
Copper Strip Corrosion	1a
Rust Test, ASTM D-665A	Pass

Available Pack Size

In 209L drums & 1,000L IBC.

HEALTH & SAFETY

This product when used for the purpose recommended is unlikely to present any significant health hazards. A Safety Data Sheet is available. Indicated data are approximate values and are subject to the usual commercial fluctuations. All information correct at time of going to press to the best of our knowledge. This information may be subject to change without notification due to continual product research and development.