DURALIFE® WATER GLYCOL FIRE-RESISTANT HYDRAULIC FLUID WGFR 46

Duralife® Water Glycol Fire-Resistant Hydraulic Fluid WGFR 46 is a high performance HF-C type water-glycol fire-resistant hydraulic fluid, formulated with anti-wear additives & corrosion inhibitors to provide outstanding protection against rust and vapor phase corrosion for use in hydraulic system where, in case of fluid leakage, there is a significant risk of ignition.

APPLICATIONS:

Duralife® Water Glycol Fire-Resistant Hydraulic Fluid WGFR 46 is recommended for a wide variety of hydraulic systems and motors operating close to a source of ignition at both low and high pressures. It also meets the demands of modern high pressure hydraulic systems upwards of 3,000 psi.

It meets Factory Mutual (FM) Category Group 1 classification, HFC 7th Luxembourg classification.

The water content is important and must be maintained at least 38% to retain optimum fire resistant properties and its viscosity characteristics. Therefore, it should be checked regularly in service and can be easily corrected by adding de-ionized water.

Applications include combustion regulators, furnace doors, die-casting machines and presses, ladel-tilting mechanisms, glass drawing machinery, forging machinery, robotic welding machines, hot strip mills, pipe milles, continuous casters, and mining equipment.

It is compatible with packings, gaskets, hoses, and accumulators made from materials as natural rubbers, acrylonitrile-butadiene rubbers (NBR), hydrogenated and fluorocarbon rubbers (FKM), except made from polyurethane, leather or cork materials.

It is not compatible with typical paints.

It is compatible with metals include ferrous, tin, nickel, copper, brass, and bronze , except magnesium alloys, zinc, cadium, and aluminum.

BENEFITS:

- Good fire-resistance.
- Superior hydrolytic stability.
- Prevent rust and against wear and corrosion damage in hydraulic systems.
- Good antifoam to prevent oil saturation and system failure.
- Excellent resistance to sludge and deposits, maintains working components in clean operational condition.
- Quick release of entrained air.
- Special anti-scuff and anti-wear agents extend the lives of gear, vane, axial and radial piston pumps.

TYPICAL CHARACTERISTICS

Test	Method	WGFR 46
Specific Gravity @15.6ºC (60ºF)	ASTM D1298	1.075
Viscosity @ 40ºC, cSt @ 100ºC, cSt	ASTM D445	46.5 10.0
Viscosity Index	ASTM D 2270	210
Flash Point, ºC (ºF)	ASTM D92	243(469.4)
Pour Point, ºC (ºF)	ASTM D97	-51(-60)
Biodegradability	OECD 310B	Pass
Aquatic Toxicity	OECD 203LC50>100mg/liter	Pass
F Z G Gear Test , Fail stage(A/8.3/90)	ISO 14635-1/ DIN 51354	12
Rusting Test, synthetic seawater	ISO 7210 /ASTM D 665B	Pass
Foam test Seq 1, mls	ASTM D892	0/0
pH @ 20ºC	ASTM D 1287	9.5
Water content, %wt	ASTM D 1744	40

The above characteristics are average values based on recent production. Minor variations which do not affect product performance are to be expected in normal manufacture.

WARNING:

Continuous contact with used oil has caused skin cancer in animal tests. Avoid prolonged contact. Thoroughly wash exposed areas with soap and water. Keep out of reach of children. Don't pollute. Conserve resources. Return used oil and bottle to collection centers.

Reference SDS Number 12095 database on our website at www.amtecol.com OR scan the code for a direct link