

Key Benefits

- **Fire & Explosion resistant meets 50:1 high compression ignition ration (MIL-H-22072C)**
- **Approved for use by all major equipment manufactures**
- **Efficient heave/motion compensation even in cold climates**
- **Excellent ferrous and non-ferrous corrosion protection**
- **Vapor phase corrosion protection**
- **High-performance anti-wear and anti-scuffing properties ('stiction' resistant)**
- **Tested to stringent global environmental acceptability requirements**
- **Resistant to microbial contamination**
- **Manufactured to NAS 1638/AS 4059 Class 6/6b-f or better cleanliness**
- **Free Fluid Monitoring programme ensures long service life**

Description

Erifon 818 fluids are explosion-resistant, water-based hydraulic fluids for use in offshore riser tensioner, motion compensator, drill string compensator, crown compensator systems and in tension leg platforms.

Erifon 818 fluids are compatible with each other, and have excellent stability and compatibility with materials used in offshore equipment. They effectively prevent corrosion in liquid and vapor phase. These standard fluids are approved by major equipment manufactures.

Approvals

Erifon 818 Series fluids are industry standard fluids and meet equipment manufacturer requirements.



Typical Physical Properties

Typical Physical Properties	Erifon 818	Erifon 818TLP	Erifon 818TLP LV
Appearance	Clear Green Slightly Viscous Fluid	Clear Green Slightly Viscous Fluid	Clear Green Slightly Viscous Fluid
Specific Gravity @15.6°C	1.085	1.087	1.075
pH	9.1	9.1	9.2
Pour Point	<-45°C (-49°F)	<-45°C (-49°F)	<-45°C (-49°F)
Kinematic Viscosity (cSt)			
-20°C (-4°F)	750	750	42.8
0°C (32°F)	125	125	11.7
20°C (68°F)	35	35	4.9
40°C (104°F)	17	15	2.6

For further recommendations, technical information, Health & Safety data sheets, OEM or environmental approvals, email wigansales@macdermid.com

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Environmental Information

MacDermid maintains worldwide environmental approvals and can offer Erifon Motion Compensator and Tensioner fluids suitable for use in every exploration and production requirement around the world. The current environmental status of Erifon 818 fluids in your area can be obtained from our environmental specialists.

Storage

Erifon 818 fluids should be stored in dry conditions, ideally out of direct sunlight. Normal storage temperature range is 5 to 40°C.

Material Compatibility

Erifon 818 fluids contain performance additives which ensure high levels of compatibility with materials typically used in motion compensator equipment. Extensive material compatibility tests have been performed with Erifon 818 fluids.

Ferrous metals (cast iron, carbon steel, low & high alloy steels, stainless steels...)	Compatible
Non-ferrous metals (copper, brass, bronze and other metals and alloys*)	Compatible with alloys typically used in subsea production control equipment. Avoid Zn, Cd, Pb and Mg metals. Aluminum should be hard anodized.
Coatings and ceramic materials	Avoid porous coatings. Compatible with most ceramic parts. Check ceramic coatings
Packaging & sealing materials (elastomers and thermoplastics*)	Compatible with standard NBR, HNBR, FFKM, VMQ/FMVQ, CR, TFE/PTFE, PEEK. Some FKM & AU/EU/PU have proven to be incompatible
Umbilical hose liner thermoplastics	Compatible with Nylon 11, PE and Polyether ester copolymers
Absorbent gasket materials	Avoid cork, leather, cotton impregnated materials
Paints	Avoid painting internal surfaces Cured epoxy, phenolic and nylon based paints are satisfactory. Avoid less resistant paints as they soften. Wash spillages immediately with water
Filter elements	Polypropylene and glass fiber filter elements recommended over paper filters

* As material compatibility varies from compound to compound and supplier to supplier, consult supplier for recommendations or request specific compatibility tests.

MacDermid Offshore Solutions A Subsidiary of MacDermid Group

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