

Key Benefits

- **Non-sheen, seawater-soluble alternative to oil-based fluids**
- **Meets stringent global environmental acceptability requirements**
- **Excellent liquid and vapor phase corrosion protection**
- **High performance lubrication properties**
- **High resistance to microbial contamination**
- **Stable with up to 50% seawater contamination**
- **Manufactured to NAS 1638/AS 4059 Class 6/6b-f or better cleanliness**
- **Free Fluid Monitoring program ensures long service life**

Description

Water-based hydraulic control fluids specifically formulated for surface and closed loop/return line Blow Out Preventer (BOP) systems, typically present on Jack-Up and Platform rigs. Erifon CLS (Closed Loop System) fluids are environmentally acceptable alternatives to traditional oil-based fluids.

Erifon CLS fluids are compatible with each other and offer the same excellent technical performance. Fluids differ only in glycol content, which ensures optimal performance in all geographical regions.

Approvals

Erifon CLS fluids are industry standard fluids and meet all original equipment manufacturer (OEM) requirements.



Typical Physical Properties

	Erifon CLS 25	Erifon CLS 40	Erifon CLS 60
Climate	Tropical	Mild	Cold
Operational Temperature Range	-10°C to 135°C (14°F to 275°F)	-25°C to 135°C (-13°F to 275°F)	-50°C to 135°C (-58°F to 275°F)
Appearance	Clear, Pale Straw	Clear, Pale Straw	Clear, Pale Straw
Specific Gravity @15.6°C	1.05	1.07	1.09
pH	9.8	9.7	9.5
Pour Point	-10°C (14°F)	-25°C (-13°F)	-50°C (-58°F)
Kinematic Viscosity (cSt)			
-40°C (-40°F)	Solid	Solid	464
-20°C (4°F)	Semi Solid	25	66
0°C (32°F)	6.0	9.2	18
20°C (68°F)	2.8	4.4	7.8
40°C (104°F)	1.6	2.5	6.0

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

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ERIFON CLS SERIES

Environmental Information

MacDermid maintains worldwide environmental approvals and can offer Erifon control fluids suitable for use in every Exploration and Production region around the world. The current environmental status of Erifon CLS in your area can be obtained from our environmental specialists.

Storage

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

Material Compatibility

Erifon CLS contains performance additives which ensure high levels of compatibility with materials typically used closed loop BOP control systems. Extensive material compatibility tests have been performed with Erifon CLS.

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 may show poor compatibility
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

Manufacturing Locations

USA	United Kingdom	Brazil	Australia
MacDermid Offshore Solutions Ltd 223 N Brockman Pasadena, TX 77506 USA Tel: (US) 800 521 2589 Outside US: +1 713 472 5081 Fax: 713 472 2440 E-mail: offshoreorders@macdermid.com	MacDermid Offshore Solutions UK Cale Lane, New Springs Wigan WN2 1JR Tel: +44 (0)1942 501000 Fax: +44 (0)1942 501110 E-mail: wigansales@macdermid.com	MacDermid Anion Rua Eli Walter Cesar, 110 Jd Alvorada Jandira, São Paulo Cep.: 06612-130 Tel: +55 11 4789 8585 E-mail: offshoreorders@macdermid.com	MacDermid Offshore Solutions 29 Dennis Street Campbellfield, Melbourne Victoria 3061 Tel: +61 3 9303 5150 Fax: +61 3 9303 5166 E-mail: wigansales@macdermid.com

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