

Key Benefits

- **High dilution ratio (100:1)**
- **High-performance ferrous and non-ferrous corrosion protection**
- **Excellent extreme pressure and anti-wear lubrication properties**
- **High resistance to microbial contamination**
- **Good mixed fluid stability with fresh water and seawater ingress (10%)**
- **Manufactured to NAS 1638/AS 4059 Class 6/6b-f or better cleanliness**
- **Compatible with Erifon HD856, Erifon CLS Series & Erifon Ecomac Series**
- **Free Fluid Monitoring programme ensures long service life**
- **No dye formula meets worldwide environmental acceptance criteria**

Description

Erifon HD 603HP is a field proven, dilutable, water-based hydraulic fluid specifically formulated for use in high-pressure open / vent to sea Blow Out Preventer (BOP) control systems. The fluid prevents valves from sticking even after long static periods and improves system life under slow moving high load conditions.

Erifon HD603HP is capable of use at 1% dilution in fresh potable water (hardness ≤ 125 ppm) and standard glycol if anti-freeze protection is required.

Approvals

Erifon HD603HP meets acceptance requirements of all equipment manufacturers (OEM's) and is a preferred fluid.



Typical Physical Properties

	Erifon HD603HP	Erifon HD603HP No Dye
Appearance	Clear Dark Green Mobile Fluid	Clear Amber Fluid
Specific Gravity @15.6°C	1.063	1.063
pH (neat)	10.0	10.0
pH @ 2%	9.4	9.4
Pour Point	-40°C (-40°F)	-40°C (-40°F)
Kinematic Viscosity (cSt)		
-20°C (-4°F)	740	740
0°C (32°F)	82	82
20°C (68°F)	20	20
40°C (104°F)	7	7

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 control fluids suitable for use in every Exploration and Production region around the world. The current environmental status of Erifon 603HP in your area can be obtained from our environmental specialists.

Storage

Erifon HD603HP should be stored in dry conditions, ideally out of direct sunlight. Normal storage temperature range is 5 to 40°C.

Material Compatibility

Erifon HD603HP Series contain performance additives which ensure high levels of compatibility with materials typically used in Blow out Preventer (BOP) control systems. Extensive material compatibility tests have been performed with Erifon HD603HP Series.

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

United Kingdom

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

USA

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

Brazil

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

Australia

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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