

Key Benefits

- High dilution ratio (50:1)
- High-performance ferrrous and non-ferrrous corrosion protection
- Excellent extreme pressure and anit-wear lubrication properties
- High resistance to microbial contamination
- Good mixed fluid stability with fresh water and seawater ingress (10%)
- Complies with API 16D
- Manufactured to NAS 1638/AS 4059 Class 6/6b-f or better cleanliness
- Compatible with Oceanic EPF and Erifon CLS 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 used at 2% dilution in fresh potable water (hardness ≤125ppm) and standard glycol if anti-freeze protection is required.

Approvals

Erifon HD603HP meets acceptance requirements of all equipment manufactures (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

THE CONTROL FLUID TECHNOLOGY LEADER

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.

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