

Key Benefits

- **ISO13628-6 tested, approved for use by all major equipment manufacturers**
- **Maximum operating temperatures up to 100°C/212°F**
- **Environmentally acceptable lubricant**
- **Designed to meet global environmental requirements**
- **Excellent ferrous and non-ferrous corrosion protection properties**
- **Excellent extreme pressure and anti-wear lubrication properties**
- **Resistant to microbial infection**
- **Fully compatible with Oceanic HW500 Series, HW500P Series, HW443 Series, HW700 Series & XT900**
- **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 fluids for use in modern open and closed loop Subsea Production control systems. Oceanic HW500E fluids offer the same high performance and reliability as industry standard Oceanic HW500 fluids while exceeding stringent environmental requirements.

HW500E series fluids differ only in glycol content, which ensures optimal response times in all geographical regions.

Approvals

Oceanic HW500E has been tested to ISO13628-6 specification and meets all original equipment manufacturer (OEM) requirements.



Typical Physical Properties

	Oceanic HW510E	Oceanic HW525E	Oceanic HW540E	Oceanic HW560E
Appearance	Fluorescent Pink Fluid	Fluorescent Pink Fluid	Fluorescent Pink	Fluorescent Pink Fluid
pH	9.2	9.3	9.3	9.3
Specific Gravity @15.6°C	1.02	1.039	1.06	1.06
Kinematic Viscosity (cSt)				
-20°C (-4°F)	Solid	Solid	20	
0°C (32°F)	3.1	4.8	6.8	
40°C (104°F)	1.0	1.5	1.7	
Pour Point	-4°C (25°F)	-10°C (14°F)	-25°C (-13°F)	-50°C (-58°F)

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

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OCEANIC HW500E SERIES



Environmental Information

MacDermid maintains worldwide environmental approvals and can offer Oceanic Subsea Production control fluids suitable for use in every exploration and production region around the world. The current environmental status of Oceanic HW500E fluids in your area can be obtained from our environmental specialists.

Storage

Oceanic HW500E fluids should be stored in dry conditions, ideally out of direct sunlight. Normal storage temperature range is 5 to 40°C.

Material Compatibility

Oceanic HW500E fluids contain performance additives which ensure high levels of compatibility with materials typically used in subsea production control equipment. Extensive material compatibility tests have been performed with Oceanic HW500E 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

Manufacturing Locations

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