

Pelagic 100 Subsea Control Fluid

Key Product Characteristics:

- 2007 Environmentally Compliant.
- OCNS Class E / Not Substitutable.
- Excellent Technical Performance.
- Extensive Material Qualification.
- Extensive Equipment Qualification.
- Fully Compatible with Mainstream Competitor Products.
- Upper Temperature >170°C.

Product Applications:

- ◆ New and Existing Subsea Systems.



Niche Products

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'Environmentally Superior Technology'

PELAGIC 100 SUBSEA CONTROL FLUID

Pelagic 100 is a Water Based Subsea Control Fluid specifically designed to replace traditional, non-environmentally acceptable control fluids in new and existing subsea systems.

Pelagic 100 offers customers a cost effective, environmentally acceptable, fully compatible alternative to non 2007 compliant Subsea Control Fluids in the North Sea.

Pelagic 100 comes with 4 years mixed fluid compatibility data, extensive equipment and material compatibility and is extremely cost competitive.

Pelagic 100 has equal or better technical performance to the best in class of control fluids on the market, across all technical performance areas.

Niche Products are happy to work with customers to fully qualify Pelagic 100 in their equipment and have a very large technical database available.

Equipment Qualification Status

TREES/CONTROLS

Kvaerner Oilfield Products Group Ltd

FMC Kongsberg Subsea AS

Rotator AS (HCV Type 10 & 15)

Vetco Gray U.K. Ltd

Vetco/ Tactair DCV's

STEEL/THERMOPLASTIC UMBILICALS

Duco Ltd

Nexans Norway AS

Kvaerner (Moss) AS

Subsea Cables AS

SUB SURFACE SAFETY VALVES (SSSV'S)

Schlumberger Reservoir Completions

Baker Oil Tools



'Pelagic 100 Subsea Control Fluid is designed for new subsea project and for topping up existing assets currently using non 2007 Compliant water based fluids.'

Comparative Physical Properties

Property	Pelagic 100	Transaqua HT	Oceanic HW443	Oceanic HW540
Colour	Colourless	Yellow/Fluorescent	Green	Blue
Viscosity (cS) @				
0°C	9.1	8.8	7	6.8
20°C	4.0	4.1	4.0	3.0
40°C	2.2	2.3	1.9	1.7
Pour Point (°C)	-30	-42	-25	-25
Flash Point	N/A	N/A	N/A	N/A
pH@ 20°C	9.5	8.8	9.7	9.3
Total Acid Number (mgKOH/g)	1.65	3.35	No Data	No Data
Total Base Number (mgKOH/g)	26.2	17.30	No Data	No Data
Density @ 20°	1.052	1.07	1.065	1.055
Bulk Modulus (Nm ⁻² X 10 ⁹)	2.60	2.31	2.3	2.3
Specific Heat Capacity kJ/kg/K	3.379	3.257	3.445	3.445
Thermal Conductivity W/m/C	0.42	0.42	0.47	0.47
Coefficient of Thermal Expansion (ml/g)/°C	0.00063	0.00057	Not Known	0.00050
Particulate Cleanliness (NAS1638)	6 or better	6 or better	6 or better	6 or better

Note: all competitor product values quoted were obtained from the relevant competitor technical manuals.

Compatibility Testing

Extensive testing conducted on Pelagic 100 vs. HW540, HW443 and Transaqua HT, covering areas such as metal, elastomer, mixed fluid, brine, completion fluid and seawater compatibility along with lubrication, high temperature and microbiological/ buffer protection, has identified Pelagic 100 as fully compatible and technically comparable/superior to the best performing competitor products in all performance areas tested.

'Pelagic 100 is one of the most thoroughly tested Subsea Fluids ever developed and is fully compatible with Oceanic and Transaqua water based fluids in all proportions.





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Certified ISO 9001-2000

For the Development, Manufacture and Supply of Speciality Chemicals



Certificate No: 2906/01

Pack Sizes

210Kg L-Ring Drum
1050Kg Palletised IBC

'Pelagic 100 is an ideal replacement for non 2007 Compliant subsea control fluids in the UK North Sea and other areas around the globe.