

# Oceanic ACL (UK)

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## Assembly Lubricant and Connector Packing Compound

### General Description

Oceanic ACL is a gel-like lubricant which fulfils a dual role during the assembly of subsea control systems and components. The first function is as an assembly lubricant, particularly during insertion of seals and packers. The second function is as a barrier compound to minimize sea water ingress during the mating of subsea connectors.

### Salient Features

### Compatibility with Control Fluids

Oceanic ACL is designed to be compatible with the MacDermid Offshore Solutions Oceanic HW range of subsea production control fluids. This overcomes the problems of contamination that can be encountered when attempting to use hydrocarbon based lubricants with water based hydraulic media. Being compatible with Oceanic HW control fluids, there is no danger of the presence of residual Oceanic ACL reducing long term stability and jeopardising the safety and reliability of the control system.



As Oceanic ACL is soluble in water based control fluids, it cannot separate out or form sludges within the control system. This is a considerable advantage over other types of lubricant, which can accumulate on fine filter elements or on critical surfaces, possibility causing blockage and malfunction of the system.

## Typical Physical Properties

Appearance	Colourless Gel
Specific Gravity	1.090
Free Alkalinity	0.5%
Water Content	74.5%
pH (10% aq)	9.1
Flash Point	107°C (225°F)

**Note :** The properties stated in this document are typical for the product, but do not constitute a specification

## Material Compatibility

Oceanic ACL may be applied to seals and packers to aid installation of piston into bores without damage. Its thixotropic nature ensures that it will remain where applied and will not run off. It is compatible with all materials commonly used in the construction of subsea control equipment.

Oceanic ACL contains inhibitors to protect ferrous metal from corrosion by surface moisture left on components.

## Exclusion of Sea Water

Oceanic ACL may be used to pack cavities in subsea connectors prior to mating. This excludes sea water, quantities of which would otherwise ingress into the control fluid, while any Oceanic ACL is entering the control system will be dissolved without adversely affecting the fluid performance.

When mating subsea hydraulic connectors, Oceanic ACL should be applied immediately prior to the operation. If the compound is left immersed subsea prior to connector mating for prolonged periods, it can develop an insoluble surface skin which should be removed before making the connection.

Information given in this publication is based upon technical data gained in our own and other Laboratories and is believed to be true. However the material is used in conditions beyond our control thus we can assume no liability for results obtained or damages incurred through the application of the data presented herein.



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