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Part of the PANOLIN concept  
 GREENMARINE®

# PANOLIN ATLANTIS 5, 15

**Control line fluid – readily biodegradable, saturated synthetic esters**

Environmentally Considerate Lubricant (ECL)/Environmentally Acceptable Lubricant (EAL)

## Features and benefits

- Specially formulated from saturated synthetic esters and selected additives to protect subsea and topside production control systems against corrosion and wear
- Fully complies to the low ecotox profile required by the OSPAR commission in order to protect the marine environment
- Contains no substitutable components according to the CEFAS classification procedure
- Minimally toxic
- CO<sub>2</sub> reduction due to extended oil-change and service intervals
- Excellent cold flow characteristics combined with oxidation resistance to offer a wide operating temperature range
- Prevents gumming and deposits even under high thermal load

## Applications (follow manufacturer's instructions)

- Offshore oil and gas
- Control line units
- Wellhead/SSSV, actuators, accumulators, tubing hangers
- Xmas trees, subsea completions, subsea ROVs

## Environmental compatibility

It is decomposed by micro-organisms in water and/or soil almost without any residues.

- Biodegradability acc. to OECD 301 B: > 60%
- CEFAS – United Kingdom: OCNS Group C (registered for open and closed systems)
- Miljødirektoratet – Norway: Environmental Category Yellow
- Miljøstyrelsen – Danish Environmental Protection Agency: PR-No. 2318929 (36060)
- OSPAR Recommendation 2010/3 on HOCNF (Harmonised Offshore Chemical Notification Format)
- RINA Green Plus – Italy
- SODM – Netherlands: OCNS Group C (HMCS Category R)
- US EPA VIDA (Vessel Incidental Discharge Act), VGP 2013 (Vessel General Permit)

## Approvals (valid manufacturer approval for the specific lubricant)

ABS – Type Approval

Damcos A/S (Emerson Process Management) (36060)



## Technical data (mean values, subject to normal tolerances)

PANOLIN ATLANTIS	Product No.	Density g/cm <sup>3</sup> 15°C	Viscosity in mm <sup>2</sup> /s		Flashpoint COC in °C	Pour point in °C	Viscosity index	Iodine No.
			40°C	100°C				
5	36054	0.864	6.1	2.1	> 150	- 30	162	< 10
15	36060	0.921	16.4	4.0	220	< - 50	146	< 10

## Instructions

Please refer to the drum label, or for detailed information, to the safety data sheet – available from PANOLIN.  
Before changing over to PANOLIN ECLs/EALs, please ask for our instructions.