



PANOLIN
Bläsimühle 2 – 6
CH-8322 Madetswil
Switzerland
www.panolin.com



PANOLIN STELLA MARIS

Stern tube lubricant – readily biodegradable, saturated synthetic esters

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

Features and benefits

- Fully synthetic and environmentally friendly stern tube lubricant, based on renewable saturated synthetic esters
- Minimally toxic
- CO₂ reduction due to extended oil-change and service intervals
- Excellent lubricity
- Does not contain emulsifiers
- High polarity that protects metal surfaces
- No varnish due to thermal oxidation
- Great hydrolytic stability
- Outstanding anti-wear and anti-corrosion properties

Application (follow manufacturer's instructions)

- For stern tubes

Environmental compatibility

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

- Biodegradability acc. to OECD 301 B: > 60%
- EN 16807 (28445, 28450, 28455, 28460)
- EU Ecolabel – DE/027/289 (28445, 28450, 28455, 28460)
- RINA Green Plus – Italy (28445, 28450, 28455, 28460)
- US EPA VIDA (Vessel Incidental Discharge Act), VGP 2013 (Vessel General Permit) (28445, 28450, 28455, 28460)

Approvals (valid manufacturer approval for the specific lubricant)

ABS – Type Approval (28445, 28450, 28455, 28460)

Aegir-Marine (28445, 28450)

Carco

Gürdesan

James Walker – Bi-O-Lion (28445)

Kemel (28445, 28450)

Lagersmit – FKM-EAL (28450)

RM Propulsion B.V.

SKF Marine – Simplex Compact Seal Viton Pod, Viton Bio (28450, 28455, 28460)

Tenmat Feroform T147

Versitec-Marine – Vanguard Seals (28445, 28450)

Wärtsilä – BIO-Seals (28445, 28450, 28455, 28460)



Technical data (mean values, subject to normal tolerances)

PANOLIN STELLA MARIS	Product No.	Density g/cm ³ 15 °C	Viscosity in mm ² /s		Flashpoint COC in °C	Pour point in °C	Viscosity index
			40 °C	100 °C			
68	28445	0.934	64.8	10.6	282	- 36	152
100	28450	0.937	96.5	14.5	284	- 33	155
150	28455	0.941	156.5	21.1	286	- 33	159
220	28460	0.944	228.6	28.5	288	- 33	162
320	28465	0.947	331.2	37.8	290	- 33	164

Instructions

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