



PANOLIN
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Part of the PANOLIN concepts



PANOLIN BIOGREASE LL-EP 2

EP universal grease – readily biodegradable, synthetic esters

Features and benefits

- Fully synthetic, readily biodegradable EP universal lubricating grease for exposed applications based on natural resources
- Minimally toxic
- Good mechanical stability
- Outstanding anti-wear and anti-corrosion properties
- Good water resistance
- Wide temperature range
- Excellent load-bearing capacity due to special additive technology

Applications (follow manufacturer's instructions)

- For exposed universal applications

Environmental compatibility

- Ecolabel «Der blaue Engel»
- EU Ecolabel (DE/027/255)
- KWF Label
- Swedish standard 15 54 70
- US EPA VIDA (Vessel Incidental Discharge Act), VGP 2013 (Vessel General Permit)



Approvals (valid manufacturer approval for the specific lubricant)

Becker Marine Systems – Rudder systems

Mecklenburger Metallguss GmbH (MMG) – Propellers and propeller caps

Technical data (mean values, subject to normal tolerances)

Product No.	72888
NI/GI	2
Soap/thickener type	Lithium
Dropping point (IP 396)	> 190°C
VKA calotte (ASTM D2266)	0.53 mm
VKA OK load (DIN 51 350)	3 000 N
VKA weld load (DIN 51 350)	3 200 N
Behavior vs. Water (DIN 51 807-1)	1– 90
Corrosion protection (EMCOR – DIN 51 802; dest. water)	0 – 0
Corrosion protection (EMCOR – DIN 51 802; synth. seawater)	0 – 0
Copper corrosion (DIN 51 811)	1
Water wash out (ASTM D1264, 38°C)	1.5%
Operation temperature range (permanent)	– 30°C to 120°C
Designation (DIN 51502)	KPE 2 K–30
Base	Synthetic esters
Base oil viscosity at 40°C	320
Colour	Beige

Instructions

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