

PANOLIN HLP SYNTH E

Bio-hydraulic fluid – saturated synthetic ester basis, environment-friendly

PANOLIN HLP SYNTH E:

- Fully synthetic and readily biodegradable, zinc-free, high-performance hydraulic fluid
- Based on saturated esters from natural resources combined with special additives
- Largely prevents deposits and gumming even at elevated operating temperatures with extended oil-change intervals
- Excellent cold flow characteristics (extremely low pour point)
- Eco-technically fully mixable and compatible with PANOLIN HLP SYNTH

Application/new filling (follow manufacturer's instructions)

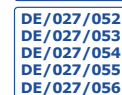
- If biodegradable hydraulic fluids from naturally regenerative resources are prescribed (EEL)
- For earthmoving and forestry hydraulic systems, the machine industry, construction and hydroelectric engineering
- Bearing lubrication and oil circulation systems
- Before changing over to PANOLIN HLP SYNTH E, please ask for our filling instructions

Note: PANOLIN HLP SYNTH E may loosen any deposits in the hydraulic system.

Environmental compatibility (average values – biological data subject to natural fluctuations)

PANOLIN HLP SYNTH E is decomposed by micro-organisms in water and/or soil almost without any residues.

- Biodegradability acc. to OECD 301 B: > 60 % to approx. 80 % (depending on viscosity)
- European Eco-Label (35625: DE/027/052, 35630: DE/027/053, 35635: DE/027/054, 35640: DE/027/055, 35645: DE/027/056)
- Fachagentur Nachwachsende Rohstoffe e.V.
- Polish Eco-Label
- RINA, Green Plus
- Swedish Standard SS 15 54 34 (35625, 35630, 35635, 35640)
- USDA, Bio Preferred
- VAMIL Regulations
- Water hazard classifications/VwVwS; nwg, WGK-1



Specifications

FZG Test A/8.3/90 loading stage 12 (35635, 35640, 35645)
ISO 15'380 HEES
CAT BF-2



Approvals (valid manufacturer approval for the specific lubricant.)

Airo by TIGIEFFE s.r.l. (35630, 35640)
Fincantieri S.p.A. (35640, 35645)
Macor Marine (35625, 35630, 35635, 35640)
Sequani Meccanica/CTE (35635)
Terex Demag (35635, 35640, 35645)
Tre Emme (35640)



Technical data (mean values, subject to normal tolerances)

PANOLIN HLP SYNTH E	Product No.	Density g/cm ³ 15°C	Viscosity in mm ² /s 40°C	Viscosity in mm ² /s 100°C	Flashpoint COC in°C	Pour point in°C	Viscosity index	Iodine No.
15	35625	0.920	16.6	3.9	225	-54	137	< 5
22	35630	0.937	21.8	4.7	247	-50	137	< 5
32	35635	0.936	30.1	6.1	229	-50	153	< 7
46	35640	0.933	47.1	8.7	240	-40	167	< 15
68	35645	0.937	69.5	11.8	245	-48	166	< 23

Safety-relevant notes:

Please refer to the drum label, or for detailed information, to the safety data sheet (available from PANOLIN)