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Part of the PANOLIN concept  
GREENMACHINE®

## PANOLIN ORCON® SYNTH E

**Hydraulic fluid – readily biodegradable, saturated synthetic esters, NSF H1**

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

### Features and benefits

- Fully synthetic and readily biodegradable hydraulic fluid, based on renewable saturated synthetic esters developed for the food, pharmaceutical and animal feed industries
- All ingredients fully comply with the strict NSF guidelines (NSF Nonfood Compounds Registration)
- Acceptable as a lubricant with incidental food contact according to NSF H1 for use in and around food processing areas
- Mineral oil free
- High polarity that protects metal surfaces
- CO<sub>2</sub> reduction due to extended oil-change and service intervals
- Excellent oxidation resistance at high temperatures
- Great hydrolytic stability
- No varnish due to thermal oxidation
- Excellent corrosion protection, develops no corrosive components even after extended operations at high temperature

### Applications (follow manufacturer's instructions)

- All hydraulic systems where NSF H1 registered fluids or biodegradable fluids based on natural regenerative resources (EU Ecolabel) are recommended
- For stationary and mobile hydraulic systems
- Food processing plant machinery and fishing industry
- In grain and feedstuff silos, etc.

### 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
- EU Ecolabel – DE/027/289
- US EPA VIDA (Vessel Incidental Discharge Act), VGP 2013 (Vessel General Permit)
- Water hazard classifications acc. to AwSV: WGK 1



### Specifications

ASTM D 8029  
FZG A/8.3/90: > 12  
ISO 15380/HEES  
Vickers V104 C

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

NSF Registration, Category H1 – NSF. Reg. No. 146647  
Halal certificate  
Health Canada  
Kosher certificate

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

| PANOLIN<br>ORCON® SYNTH E | Product<br>No. | Density g/cm <sup>3</sup><br>15°C | Viscosity in mm <sup>2</sup> /s<br>40°C 100°C | Flashpoint<br>COC in °C | Pour point<br>in °C | Viscosity<br>index | Iodine<br>No. |
|---------------------------|----------------|-----------------------------------|---|-------------------------|---------------------|--------------------|---------------|
| 46                        | 37316          | 0.960                             | 48.8 8.5                                      | 242                     | < -57               | 151                | <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, please ask for our instructions.