



# ProEco HE 801 - Series

## Environmentally Acceptable Hydraulic Fluids

### Composition

The ProEco HE 801 - Series are environmentally friendly, high performance Premium Hydraulic Fluids based on fully saturated esters to provide superior oxidation stability.

### Properties & Use

Cognis **ProEco HE 801- Series fluids** are premium quality, high performance lubricants to satisfy the demand for environmentally acceptable hydraulic fluids.

#### **ProEco HE 801 characteristics:**

- fulfil the requirements of the EU Ecolabel for hydraulic fluids
- provide best-in-class seal and elastomer compatibility due to their innovative base fluid technology. They perform excellent with all types of elastomers, including NBR and HNBR
- based on proprietary and patented Cognis ester technology. These esters are fully saturated and branched in order to meet highest performance standards
- are readily biodegradable, having a renewable content > 80 %
- WGK 1 rating according to the German WGK Classification
- have excellent oxidation resistance due to the use of fully saturated base fluids
- their high VI enables significant fuel economy
- for all climate and especially suited for cold climate operations due to their low pour point and their stable low viscosity profile over prolonged storage at - 30 °C

**ProEco HE 801** additive technology provides excellent antiwear and extreme pressure properties as well as outstanding thermal stability, corrosion protection, and seal compatibility.

#### **Application:**

**ProEco HE 801** Hydraulic oils are recommended for use in high performance, heavy duty hydraulic systems operating under a wide range of environmental and operating temperatures.

**ProEco HE 801** fluids are virtually non toxic and readily biodegradable and therefore first choice for use in environmentally sensitive areas. Recommended for use in marine, construction, mobile, and mining applications.

**Industry standards:**

ProEco HE 801 fluids meet or exceed the following industry specifications

- ISO 15380
- Bosch Rexroth RD90221-1
- Eaton Vickers 35VQ25A
- HAWE Hydrauliks
- EU Ecolabel
- Swedish Standard SS 15 54 34
- MIA-Vamil
- VDMA 24568 HEES



Typical Data		ProEco 801 - ProEco 801 - ProEco 801 - ProEco 801 -				
Item	Method		22	32	46	68
ISO Viscosity	DIN 51519		ISO 22	ISO 32	ISO 46	ISO 68
Viscosity @ 0°C	DIN 51562-1	mm <sup>2</sup> /s	156,00	195,00	327,00	485,00
40°C	DIN 51562-1	mm <sup>2</sup> /s	23,87	33,19	44,32	72,62
100°C	DIN 51562-1	mm <sup>2</sup> /s	5,31	6,80	8,64	14,44
Viscosity index	DIN ISO 2909	-	165	170	177	209
Pour point	DIN ISO 3016	°C	-51	-48	-45	-45
Flash Point	DIN EN ISO 2592	°C	>190	>200	>280	>280
Steel corrosion	DIN ISO 7120 A&B	rate	pass	pass	pass	pass
Copper corrosion	DIN EN ISO 2160	rate	1a	1a	1a	1a
Density (20°C)	DIN 51757	g/cm <sup>3</sup>	0,866	0,878	0,886	0,887

**Compatibility:**

ProEco HE 801 Series fluids are fully miscible with for e. g. mineral oil based hydraulic fluids. However it is always recommended to test for miscibility. Additionally compatibility with paint finishes or seals should be tested prior to use.

**Remarks****Handling & Safety:**

ProEco HE 801 - Series premium fluids are virtually non toxic and readily biodegradable. Please refer to safety data sheet for further information.

**Storage:**

The product can be stored for at least 2 years at ambient storage conditions and temperature without any deterioration.

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