

Biohydran SE

High thermal stability biodegradable hydraulic fluid

APPLICATIONS

Hydraulic systems.

Based on saturated synthetic esters Biohydran SE is designed for demanding hydraulic systems requiring hydraulic fluids with a high thermal stability and good lubricating properties.

The excellent biodegradability and low eco toxicity make Biohydran SE particularly suitable when incidental spillages in environmentally sensitive areas can occur, such as forestry works, public works, water navigation, offshore, water catchments areas, ski resorts...

It is recommended to check with the equipment supplier to see whether the installation is suitable for the use of synthetic ester based hydraulic fluids. Biohydran SE has a good compatibility level with NBR, HNBR, AU and FPM seals.

Contact our technical service for advice on switching from HM or HV fluids to Biohydran SE.

ADVANTAGES

Biohydran SE has a natural high and stable viscosity index. No viscosity loss due to shear is observed. This stable viscosity level ensures an optimum hydraulic efficiency during all the fluid lifetime.

The good lubricating properties and corrosion protection will extend the component lifetime of hydraulic systems.

The excellent oxidation stability of Biohydran SE offers extended drain intervals compared to classical mineral hydraulic fluids.

The very low foaming tendency and fast air release limit air contamination in the circuit.

Biohydran SE is miscible with classical HM and HV mineral hydraulic fluids.

Biohydran SE contains more than 80 % of renewable carbon.



EU Ecolabel : FR/27/002

This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial advisor or downloaded at ms-sds.totalenergies.com

SPECIFICATIONS

ISO 15380: HEES.

DIN 51524 (for mineral oils): except DIN 51587 and ISO 13357.

Ecolabel: FR/27/002 AFNOR CERTIFICATION

Reduced harm for water and soil during use.

Reduced CO₂ emissions. For more information on the European Ecolabel, please consult:

<http://ec.europa.eu/environment/ecolabel/>

Meets the requirements of the Swedish standard.

APPROVALS

DENISON HF0, HF1, HF2 & HF6

Suitable for:

CAT BF-2

JCMA HKB (32 and 46 grade)

TYPICAL CHARACTERISTICS

Properties	Units	Standards	Biohydran SE		
			32	46	68
Appearance	-	Visual	Clear and bright		
Density at 15 °C	kg/m ³	ISO 3675	938	933	925
Viscosity at 40°C	mm ² /s	ISO 3104	32	46	68
Viscosity at 100°C	mm ² /s	ISO 3104	5.9	8.7	10.3
Viscosity index	-	ISO 2909	150	146	142
Flash Point	°C	ISO 2592	255	280	280
Pour point	°C	ISO 3016	-42	-42	-30
Biodegradability	-	OECD 301	Readily biodegradable according to Ecolabel requirements		

This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.

A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial advisor or downloaded at ms-sds.totalenergies.com