BIOHYDRAN SE



Lubrication





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: forestry works, public works, water navigation, off-shore,
 water catchments areas, ski resorts, etc...

SPECIFICATIONS

STANDARDS

● ISO 15380 : HEES.

OEM

- DIN 51524 (for mineral oils): except DIN 51587 and ISO 13357.
- DENISON : HF1, HF2 & HF6 approved.

EUROPEAN ECO-LABEL SWEDISH STANDARD

- Registration number: FR/27/02 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/
- Meet the requirements of the Swedish Standard SS 15 54 34.

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 life.
- The good lubricating properties and corrosion protection will extend the component life 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.

PRECAUTIONS

- 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 changing from HM or HV fluids to BIOHYDRAN SE.

TYPICAL CHARACTERISTICS	METHODS	UNITS	BIOHYDRAN SE 32	BIOHYDRAN SE 46	BIOHYDRAN SE 68
Appearence	-	Visual	Clear and bright	Clear and bright	Clear and bright
Density at 15°C	ISO 3675	kg/m ³	938	933	925
Kinematic Viscosity at 40°C	ISO 3104	mm²/s	32	46	68
Kinematic Viscosity at 100°C	ISO 3104	mm²/s	5,9	7,7	10,3
Viscosity Index	ISO 2909	-	150	146	142
Flash Point	ISO 2592	°C	255	280	280
Pour Point	ISO 3016	°C	- 42	- 42	-30
Biodegradabilily	OECD 310	O Contain more than 98% of ultimately biodegradable substances			

Above characteristics are mean values given as an information

TOTAL LUBRIFIANTS Industrie & Spécialités 27-11-2012 (supersedes 20-12-2011) BIOHYDRAN SE 1/1

