

TECHNICAL DATA SHEET

MEEKHYDRO BIO

PRODUCT DESCRIPTION

Environmentally acceptable hydraulic fluid and lubricating oil based on saturated synthetic esters. The **MEEKHYDRO BIO** oils are environmentally acceptable high-performance hydraulic and lubricating oils based on saturated synthetic esters. These oils can be used universally in all hydraulic systems, even under severe operating conditions. **MEEKHYDRO BIO** has been tested and approved by well-known manufacturers of hydraulic components like Bosch Rexroth and Sauer Sundstrand. **MEEKHYDRO BIO** products fulfill and surpass the requirements according to ISO 15380. **MEEKHYDRO BIO** products are compatible with materials usually found in hydraulic systems. For dynamic stress as seals the use of viton FKM material is recommended.

APPLICATIONS

MEEKHYDRO BIO oils are rapidly biodegradable synthetic saturated ester oils for the toughest demands. They can be used in all applications in mobile and stationary hydraulic units where the use of biodegradable synthetic ester based hydraulic oil according to ISO 15380 HEES is recommended. The **MEEKHYDRO BIO** products should be used where oil leakage or oil spillage will give a soil or water pollution. **MEEKHYDRO BIO** products can be used as an alternative to conventional HLP/HM hydraulic oils and have proved their perfect suitability in many applications (construction machinery, earth moving equipment, loading cranes, floor conveyor vehicles and hydraulic platform systems in trucks, harvesters). The application temperatures can be between -30 °C and 100 °C tank temperatures. Temperatures above 100 °C are temporarily possible.

ADVANTAGES

- Based on renewable resources
- Rapidly biodegradable (> 60 % acc. to OECD 301 B)
- Multi-purpose characteristic (multi grade)
- Miscible with mineral oil and polyalphaolefin
- Excellent viscosity temperature behavior (high VI)
- Good low temperature behavior
- Shear stable
- Good corrosion protection
- Natural mild cleaning properties
- Very high resistance to ageing, high thermal stability
- Excellent hydrolytic stability
- Very good wear protection
- Excellent lubricating properties
- Lifetime lubricating possible

TYPICAL PROPERTIES

ISO VG		32	46	68
Density@15°C, g/ml	ASTM D 4052	0,915	0,913	0,916
Viscosity@-20°C, mm ² /s	ASTM D 445	1450,0	2100,0	4820,0
Viscosity@0°C, mm ² /s	ASTM D 445	270,0	440,0	750,0
Viscosity@40°C, mm ² /s	ASTM D 445	32,0	46,0	68,0
Viscosity@100°C, mm ² /s	ASTM D 445	6,2	8,2	10,6
Viscosity Index	ASTM D 2270	148	150	143
Flash Point, °C	ASTM D 92	220	280	280
Pour Point,	ASTM D 97	-46	-36	-30



HEALTH AND SAFETY RECOMMENDATIONS

Waste oils must not be discharged into underground or surface water sources, sewage systems or garbage cans. Prolonged or repeated contact with used oils may cause skin diseases. Therefore sterilized gloves should always be used. If part of the skin comes into contact with waste oil, that part should be immediately washed with plenty of soap and water. In case of skin irritation or redness caused by contact, seek advice of your doctor immediately. For more information contact Material Safety Data Sheet (MSDS).

The vehicle and equipment manufacturers specifications and relevant international standards were taken into consideration while preparing the content of this Technical Data Sheet. The expressions in the content of this Technical Data Sheet can not be considered as guarantee commitment or similar way in terms of product characteristics and product use in any applications.

The correct use of this product, compliance with applicable laws and regulations is responsibility of the user. Mineral Energies Petrol A.Ş. can not be held responsible for any loss or damage arising from the abnormal use and misuse or any hazards of product content and its results.

This Technical Data Sheet is valid from the date of publication. The information in the content of this Technical Data Sheet are subject to change without notice. Please contact with Mineral Technical Department for more information.

