

TECHNICAL DATA SHEET

MEEKGear BIO

PRODUCT DESCRIPTION

Environmentally acceptable lubricating oil and EP industrial gear oil based on synthetic saturated esters. **MEEKGear BIO** products are environmentally acceptable industrial gear oils based on special saturated synthetic esters which guarantee high ageing resistance and excellent wear protection - very good lubricity. The products have a good solvency (good detergent dispersant properties due to the polar ester base oils). **MEEKGear BIO** products have high scuffing protection (FZG > 12). The selected antiwear/ extreme pressure additive system guarantees the wear protection of bearings due to the excellent FE8 roller bearing wear test results (excellent wear protection of roller bearings under severe conditions, high load, low velocity).

APPLICATIONS

MEEKGear BIO products can be used as universal CLP industrial gear oils. **MEEKGear BIO** products can be used in spur, bevel, planetary and worm gears, especially in environmentally sensitive areas. The products can also be used in drive systems in water protection areas where ground and surface water can be polluted by oil leakages. The formulation of **MEEKGear BIO** series is based on fully synthetic saturated high-performance esters based on natural renewable resources. The products can be used in applications where the use of synthetic lubricants are of advantage.

ADVANTAGES

- Good corrosion protection
- Excellent wear protection for gears and bearings
- Excellent viscosity temperature behavior, high viscosity index (VI)
- Miscible with mineral oil and polyalphaolefin gear oils
- Natural dissolving properties
- Highest shear stability
- Based on renewable resources
- Rapidly biodegradable (> 60% acc. to OECD 301 B)
- High resistance to ageing
- Good air release
- Low foaming
- Optimally suited for high and low temperature use

TYPICAL PROPERTIES

ISO VG		100	150	220
Density@15°C, g/ml	ASTM D 4052	0,924	0,926	0,938
Viscosity@40°C, mm ² /s	ASTM D 445	100,0	150,0	220,0
Viscosity@100°C, mm ² /s	ASTM D 445	13,7	19,1	26,2
Viscosity Index	ASTM D 2270	138	145	152
Flash Point, °C	ASTM D 92	280	280	280
Pour Point,	ASTM D 97	-33	-30	-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.

