



Energear Hypo

Extreme-Pressure Automotive Multigrade Gear Oils

Applications

Energear Hypo are designed for use in hypoid, bevel and spiral gear units, axles and final drives operating under severe conditions and over a wide spectrum of operating temperatures. Through their multigrade viscosity characteristics, they

meet the requirements of several automotive manufacturers for cars, vans and commercial trucks or buses. For synchronized manual gearboxes, they should be used only if lubricants of API GL-5 performance level are explicitly recommended for such units.

Main Benefits

- Superior viscosity / temperature characteristics offering excellent cold flow properties and enhanced thermal stability.
- Excellent resistance to foaming and corrosion.
- Formulated from high quality base oils and employing sulphur / phosphorous EP additive technology.
- Compatible with the conventional seal materials used with mineral oils.
- Provides effective wear protection even under severe load conditions ensuring longer component life and allowing it to be used in the final drives of most vehicles in a wide range of operating temperatures.

Specifications

- API GL-5
- ZF TE-ML 05A,07A,12A,16B,17B (SAE 80W-90)
- ZF TE-ML 05A,07A,12A,16D,17B (SAE 85W-140)

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration

of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

Health, Safety and Environment

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products.

The British Petroleum Company p.l.c. or its subsidiaries will not accept liability if the product is used other than in the manner or with the precautions or for the purpose/s specified. Before the product is used other than as directed, advice should be obtained from the local BP office.

Typical Characteristics

Test Methods		Units	Grade :	
Density at 15°C	ASTM D1298	Kg/m ³	80W-90	85W-140
Kinematic Viscosity / 100 °C	ASTM D445	mm ² /s	902	905
40 °C	ASTM D445	mm ² /s	13.9	26.0
Brookfield Viscosity /			132	-
-12°C	ASTM D2983	mPa.s		<150 000
-26°C	ASTM D2983	mPa.s	<150 000	
Viscosity Index	ASTM D2270	-	99	90
Pour Point	ASTM D97	°C	-30	-18
Flash Point (COC)	ASTM D92	°C	220	220
Phosphorus	ICP	% mass	0.11	0.11

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

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