GEAR BOXES PAO

ISO 320

REXOIL GEAR BOXES PAO ISO 320 is a premium fully synthetic industrial gear lubricant developed with **Polyalphaolefin (PAO) technology** for demanding gear and power transmission applications. Its advanced formulation is designed to maintain a strong lubricating film under **high loads, elevated temperatures and prolonged operating conditions**, providing dependable protection for critical gearbox components.

The high-viscosity PAO formulation offers excellent resistance to **thermal breakdown and oxidation**, helping maintain lubricant performance and equipment cleanliness over extended service periods. It is particularly suited to heavy-duty machinery where high load-carrying capacity, long oil life and reliable protection are essential.

REXOIL GEAR BOXES PAO ISO 320 is recommended for **heavy-duty enclosed gearboxes, industrial speed reducers, conveyors, mixers, crushers, mills, material-handling equipment and other power transmission systems** requiring an ISO VG 320 synthetic gear lubricant.

Features and Benefits

- **Advanced PAO synthetic technology** provides excellent lubricant stability and high-performance protection.
- **High viscosity and strong film strength** provide reliable separation of heavily loaded gear surfaces.
- **Excellent oxidation resistance** helps extend lubricant service life and maintain performance over prolonged operation.
- **Outstanding thermal stability** supports reliable lubrication at elevated operating temperatures.
- **High load-carrying performance** helps protect gears and bearings under demanding mechanical loads.
- **Effective anti-wear protection** helps reduce component surface damage and premature wear.
- **Excellent resistance to sludge and deposit formation** helps maintain a clean lubrication system.
- **Reliable rust and corrosion protection helps** protect internal gearbox components against environmental effects.
- **Low volatility** helps minimize lubricant loss during high-temperature operation.
- **Long service potential** can contribute to reduced maintenance frequency and lower operating costs.

Approval and Specifications

DIN 51517 Part 3; AGMA 9005-F16; ISO 12925 (L-CKC/L-CKD); ISO 6743-6 (L-CKC/L-CKD); ZF TE-ML 04F; ZF TE-ML 27; David Brown S1.53.101; AIST 224 (US Steel 224); Fives Cincinnati Machine Gear

Technical Specifications

Test	Method	Typical Properties
Kinematic Viscosity (40°C), [cSt]	ASTM D445	288,0 – 352,0
Viscosity Index	ASTM D2270	Min. 135
Density @ 15^0C g/ml	ASTM D4052	0,835 - 0,855
Flash Point, °C	ASTM D92	Min. 230
Pour Point, °C	ASTM D97	Max. -45

Health and Safety

This product does not pose a significant health or safety risk when used appropriately. For detailed safety information, please refer to the Safety Data Sheet (SDS).

Storage & Handling

Store in a cool, dry, and well-ventilated area, away from direct sunlight and moisture. Keep containers tightly closed to prevent contamination. Dispose of contents and containers in accordance with local regulations.

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