GEAR BOXES PAO

ISO 680

REXOIL GEAR BOXES PAO ISO 680 is a premium fully synthetic industrial gear lubricant formulated with high-performance **Polyalphaolefin (PAO)** base oils and an advanced additive system. It provides excellent thermal and oxidative stability, high film strength and reliable protection against wear, scuffing, micropitting, rust and corrosion under heavy-load and demanding operating conditions.

Designed for **enclosed industrial gearboxes** requiring ISO VG 680 lubricants, it is suitable for spur, helical, bevel and planetary gears, as well as heavy-duty gear reducers and power transmission systems. It is ideal for demanding applications in **steel, cement, mining, paper, power generation, marine and general industrial equipment**, helping maintain clean operation, extend component life and support longer lubricant service intervals.

Features and Benefits

- **Fully Synthetic PAO Technology** – Provides superior performance and stability under demanding operating conditions.
- **Excellent Thermal & Oxidation Stability** – Resists lubricant degradation at elevated temperatures and supports extended service life.
- **Outstanding Load-Carrying Performance** – Provides strong protection under heavy loads, high torque and shock-load conditions.
- **Superior Wear & Scuffing Protection** – Helps protect gears and bearings against wear, scuffing and micropitting.
- **High Film Strength** – Maintains a durable lubricating film for reliable protection of heavily loaded gear surfaces.
- **Excellent Corrosion Protection** – Helps protect metal components against rust and corrosion.
- **Clean Gear Operation** – Resists sludge, varnish and deposit formation, supporting cleaner equipment.
- **Excellent Shear Stability** – Maintains consistent lubrication performance during demanding service.
- **Extended Equipment Life** – Helps reduce component wear and improve the reliability of industrial gear systems.

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 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	612,0 – 748,0
Viscosity Index	ASTM D2270	Min. 145
Density @ 15^0C g/ml	ASTM D4052	0,840 - 0,860
Flash Point, °C	ASTM D92	Min. 260
Pour Point, °C	ASTM D97	Max. -35

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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