# GEAR BOXES PAO

# ISO 100

**REXOIL GEAR BOXES PAO ISO 100** is a **premium fully synthetic industrial gear lubricant based on advanced Polyalphaolefin (PAO) technology**, developed for demanding industrial applications requiring exceptional thermal stability, oxidation resistance, extended lubricant life and reliable component protection. Its advanced formulation provides a **strong and stable lubricating film across a wide operating temperature range**, offering excellent wear, rust and corrosion protection while maintaining clean and efficient gearbox operation.

The product is particularly suitable for **high-speed, continuous-duty and heavily loaded industrial gear systems**, where superior lubricant performance and long-term operational reliability are required. Its high resistance to thermal degradation and oxidation helps minimize deposit formation, reduce maintenance requirements and support extended oil service intervals.

**REXOIL GEAR BOXES PAO ISO 100** is recommended for **enclosed industrial gearboxes, precision gear drives, high-speed reducers, conveyors, machine tools, compressors, pumps and other power transmission equipment** where an ISO VG 100 synthetic gear lubricant is specified.

## *Features and Benefits*

- **PAO synthetic base fluid technology** provides superior performance and excellent lubricant stability.
- **Exceptional oxidation resistance** helps extend oil life under elevated operating temperatures.
- **Excellent thermal stability** supports reliable lubrication during continuous and demanding operation.
- **High and stable viscosity performance** helps maintain a consistent lubricating film across varying temperatures.
- **Excellent low-temperature fluidity** supports reliable start-up and lubrication in cold operating conditions.
- **Superior wear protection** helps minimize gear and bearing surface wear and contributes to extended component life.
- **Excellent resistance to sludge, varnish and deposit formation** helps maintain gearbox cleanliness.
- **Strong rust and corrosion protection** safeguards gears, bearings and other internal components.

## *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 04H; 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 | 90,0 – 110,0 |
| **Viscosity Index** | ASTM D2270 | Min. 130 |
| **Density @ 15$^0$C g/ml** | ASTM D4052 | 0,825 - 0,850 |
| **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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