COMPRESSOR OIL FX 46

REXOIL COMPRESSOR OIL FX 46 is a premium-quality **synthetic compressor lubricant formulated with high-performance PAO base oils and advanced ashless additive technology**. Its advanced formulation provides exceptional resistance to oxidation and thermal degradation, superior protection against wear, rust and corrosion, and excellent control of sludge, varnish and carbonaceous deposits. The ashless additive system minimizes ash-forming residues and helps maintain compressor internals in a clean condition, while the PAO synthetic base oil provides excellent lubricating performance, low volatility and outstanding thermal stability over a wide operating temperature range.

REXOIL COMPRESSOR OIL FX 46 is specially developed for the lubrication of **rotary screw, rotary vane and reciprocating air compressors** operating under demanding industrial conditions, including continuous-duty operation, elevated temperatures and high loads. It is particularly suitable for modern high-performance compressor systems where **extended oil service life, superior deposit control, equipment cleanliness, reliable wear protection and reduced maintenance requirements** are essential.

The **ISO VG 46** viscosity grade provides an effective balance between rapid oil circulation and robust lubricating-film strength, making it suitable for compressor systems operating under moderate to severe loads and temperatures. Depending on compressor design, operating conditions, temperature, load and manufacturer recommendations, it provides reliable long-term lubrication and extended oil service performance.

Features and Benefits

- **Advanced PAO Synthetic Formulation** – Provides exceptional thermal stability, oxidation resistance and reliable lubrication over a wide operating temperature range.
- **Ashless Performance Technology** – Minimizes ash-forming residues and helps maintain clean compressor internals, valves and lubrication systems.
- **Superior Oxidation Stability** – Resists lubricant degradation during prolonged high-temperature and continuous-duty operation, supporting extended oil service life.
- **Advanced Deposit Control** – Helps minimize sludge, varnish, lacquer and carbonaceous deposits that can adversely affect compressor efficiency and component reliability.
- **Superior Wear Protection** – Forms a durable lubricating film that protects bearings, rotors, gears and other critical components against wear.
- **Optimized ISO VG 46 Viscosity** – Provides an excellent balance between oil circulation, component protection and lubricating-film strength under demanding operating conditions.
- **Excellent Thermal Performance** – Maintains lubricant integrity and protective performance during continuous operation and elevated-temperature service.
- **Low Volatility** – Helps minimize evaporation and lubricant consumption, contributing to cleaner and more economical compressor operation.
- **Reliable Rust & Corrosion Protection** – Protects internal metal surfaces against rust and corrosion, including in moisture-prone operating environments.
- **Excellent Air Release Characteristics** – Promotes rapid release of entrained air, supporting stable lubrication and efficient compressor operation.
- **Superior Water Separation** – Facilitates effective separation of water from the lubricant, helping preserve oil performance and protect internal components.
- **Reduced Maintenance Requirements** – Superior oxidation stability and deposit control help minimize deposit-related maintenance and unplanned downtime.

REKSOIL PETROKİMYA SAN. VE TİC. A.Ş.
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Approval and Specifications

DIN 51506 VDL; DIN 51506 VCL; DIN 51506 VBL; DIN 51506 VCL; ISO/DP 6521 (DAA, DAB, DAH, DAG); ALUP; Atlas Copco; FIAC; FINI; KAESER

Technical Specifications

Test	Method	Typical Properties
ISO GRADE		**46**
Kinematic Viscosity (40°C), [cSt]	ASTM D445	41,4 – 50,6
Viscosity Index	ASTM D2270	Min. 135
Density @ 15 ^{0}C, g/ml	ASTM D 4052	0,830 – 0,850
Flash Point, °C	ASTM D92	Min.220
Pour Point, °C	ASTM D97	Max. -55
Copper Strip Corrosion (3h, 100°C)	ASTM D130	Max.1b
Sulfated Ash, % (m/m)	ASTM D874	Max. 0,01

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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