REX-e PolyEV GREASE

NLGI 2

REXOIL REX-e PolyEV GREASE is a high-performance **polyurea-thickened synthetic grease** engineered for the demanding lubrication requirements of modern **electric and hybrid vehicle systems**. Formulated with advanced synthetic base oils and a non-melting polyurea thickener system, it delivers exceptional thermal and mechanical stability under extreme operating conditions commonly found in high-speed electric drivetrains.

Designed to support the efficiency and durability requirements of next-generation mobility, this grease provides outstanding lubrication performance in environments characterized by high rotational speeds, elevated temperatures, and long service intervals. Its low friction characteristics help reduce energy losses while maintaining consistent film strength, ensuring reliable protection of precision components.

It is specifically suitable for **electric motor bearings in EV traction systems**, where silent operation, low torque resistance, and extended service life are critical. The formulation is also ideal for **hybrid electric vehicle (HEV/PHEV) drivetrain components**, **high-speed wheel bearings**, and **sealed-for-life bearing assemblies** used in modern automotive engineering. In addition, it performs effectively in **electric auxiliary systems** such as HVAC compressors, coolant pumps, and other electrically driven rotating components.

By combining superior oxidation resistance, excellent water stability, and compatibility with modern sealing materials, this product ensures long-term operational reliability and reduced maintenance requirements in both passenger and commercial electric vehicle platforms.

Features and Benefits

- **High thermal stability:** Maintains performance under continuous high temperatures typical of EV traction systems
- **Excellent oxidation resistance:** Prevents oil degradation and sludge formation over long service life
- **Polyurea thickener system:** Non-melting structure ensures stability at extreme operating conditions
- **Designed for high-speed bearings:** Provides reliable lubrication film at very high RPM electric motor applications
- **Low friction performance:** Reduces mechanical losses and supports improved energy efficiency
- **Enhanced NVH control:** Minimizes noise, vibration, and harshness for quieter EV operation
- **Superior mechanical stability:** Resists shear breakdown under continuous mechanical stress
- **Excellent water resistance:** Protects components against water washout and moisture exposure
- **Corrosion protection:** Shields metal surfaces from rust and electrochemical wear
- **Seal compatibility:** Safe for use with modern elastomers and sealing materials used in OEM systems
- **Long service life:** Suitable for sealed-for-life applications with extended maintenance intervals
- **EV-optimized formulation:** Specifically developed for electric and hybrid vehicle drivetrain requirements

Approval and Specifications

DIN 51502, KP2P-20, ISO 12924, ISO L-XECEA-2

REKSOIL PETROKİMYA SAN. VE TİC. A.Ş.
Adres: Birlik Organize Sanayi Bölgesi Doğu Cd. No:19-21 Tuzla – İSTANBUL - TÜRKİYE Tel: +90 216 593 35 70 Fax: +90 216 593 35 78
www.rexoil.com.tr

Technical Specifications

Test	Method	Typical Properties
NLGI		**2**
Soap Type		Polyurea
Color		BLUE
Penetration, worked, 25°C, 0,1 mm	ASTM D217	265 - 295
Dropping Point, °C	ASTM D566	Min.240
Operating Temp. Range (°C)	-	- 20 to +160

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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