

Product Data Sheet

PT Maxnitron Lithium Complex Grease EP

Premium Lithium Complex Grease with Extreme Pressure

PT Maxnitron Lithium Complex Grease EP is a high-quality multipurpose grease manufactured from lithium complex soap and high-grade mineral base oil, enhanced with special additives to provide excellent extreme-pressure (EP) performance. It effectively reduces friction between metal surfaces, improves lubrication efficiency, and minimizes wear and corrosion. The grease offers excellent resistance to high temperatures and oxidation, making it suitable for a wide range of applications from automotive use to general industrial and heavy-duty operations.

Customer Benefits

- **Excellent wear protection**

With specially formulated performance-enhancing additives, the grease provides effective lubrication and significantly reduces friction between metal surfaces. It delivers outstanding protection even under high-pressure and heavy-duty operating conditions, ensuring that machinery components are well protected throughout their service life.

- **Wide range of applications**

PT Maxnitron Lithium Complex Grease EP is a multipurpose grease suitable for both general industrial and automotive applications. It offers high heat resistance and can be applied using a grease gun, manual application, or automatic lubrication systems (recommended grease grade not exceeding NLGI No. 2, depending on the specifications of the lubrication pump).

- **Extended grease life and improved performance**

Carefully selected additives, the grease provides excellent oxidation resistance, reduces grease leakage, and helps extend relubrication intervals. It also offers effective protection against corrosion and rust, contributing to longer equipment service life and lower maintenance costs.

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Performance Standards

- NLGI 2 for EP2
- NLGI 3 for EP3

Applications

- Used as a multipurpose grease for lubricating industrial machinery and vehicles operating under heavy-duty and extreme pressure conditions, such as bearings, bushings, shafts, wheel pins, trailer fifth wheels, and various grease points on machinery.
- Suitable for lubricating bearings and machinery subjected to shock loads and heavy operation, including crushers, cutters, metal rolling machines, as well as construction machinery and agricultural equipment.
- Suitable for use within a temperature range of -15°C to +180°C.

Typical Characteristics

Properties	EP 2	EP 3
NLGI Grade	2	3
Soap Type	Lithium Complex	Lithium Complex
Appearance	Yellow	Yellow
Viscosity @ 40 °C (cSt.)	200	200
Viscosity @ 100 °C (cSt.)	18	18
Unworked Penetration @ 25°C	276	226
Worked Penetration @ 25°C	283	225
Dropping Point (°C)	280	280
Water Washout @ 38°C, 1Hr.	3.1	3.1
Copper Corrosion @ 100°C / 24 Hrs.	1B	1A
Four-Ball Weld Load (Kgf)	315	315
Four-Ball Wear Scar (mm)	0.47	0.6
Timken OK Load (lbs)	50	50

*The above values represent typical production standards at the time of manufacture. Variations may occur between production batches; however, the essential characteristics and performance of PT Maxnitron remain consistent with its quality standards.

****Note****

The use of PT Maxnitron Lithium Complex Grease EP should be based primarily on the recommendations specified in the equipment manufacturer's manual. The correct viscosity grade must be selected in accordance with the required standards and the manufacturer's recommendations for each machine.