

Product Data Sheet

PT Maxnitron Gear EP

Premium Industrial Gear Oil with Extreme Pressure

PT Maxnitron Gear EP is an industrial gear oil formulated from high-quality base oils, blended with carefully selected extreme-pressure (EP) additives and anti-wear agents. It is specifically designed for use in industrial gear systems operating under heavy loads and high-impact conditions. The advanced extreme-pressure properties enable the oil to withstand severe loads and pressures effectively, providing excellent protection to gear components and significantly extending their service life, even during continuous operation under harsh and demanding working conditions.

Customer Benefits

Excellent Wear Protection

With specially formulated anti-wear additives, a protective film is formed at points of metal-to-metal contact. This helps significantly reduce wear on gear teeth, bearings, and various internal components within the system, while maintaining efficient power transmission. The oil continues to provide reliable protection even under high loads and severe, heavy-duty operating conditions.

Reduce Problems in the Gear System

PT Maxnitron Gear EP oil offers excellent resistance to water contamination and effectively prevents foaming within the system. It contains heat-stable performance additives that help prevent the formation of corrosive compounds during high-temperature operation. In addition, it helps reduce the formation of rust on various components within the gear system, ensuring smoother operation and longer service life.

Extend Oil Service Life and Enhance Operating Efficiency

Specially selected performance additives provide excellent resistance to oxidation, slowing down oil degradation and thickening. This helps reduce energy consumption, extend oil drain intervals, and protect against the formation of sludge, rust, and various contaminants that could be harmful to machinery components.

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Performance Standards

- DIN 51517 PART III CLP
- AIST 224 (formerly U.S. Steel 224)
- AGMA 250.04
- ISO 12925-1 CKC/CKD
- GM LS-2
- Five Cincinnati Machine Gear
- David Brown S1.53.101

Applications

- Suitable for enclosed gear systems in industrial plants.
- Open gear systems operating under moderate load and pressure (the use of high-viscosity oil is recommended).
- Gear drives, chains, and flexible shaft couplings.
- Gearboxes for spur gears, bevel gears, helical gears, and hypoid gears used in industrial applications.

Typical Characteristics

ISO Grade	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680
Appearance	Bright/Clear	Bright/Clear	Bright/Clear	Bright/Clear	Bright/Clear	Bright/Clear	Bright/Clear
Viscosity @ 40 °C (cSt.)	68.0	99.5	150	213	312	455	672
Viscosity Index	104	104	100	99	97	96	95
Pour Point (°C)	-12	-12	-12	-12	-12	-12	-12
Foam Characteristic-Sequence I (mL/mL)	Nil/0	Nil/0	Nil/0	Nil/0	Nil/0	Nil/0	Nil/0
Foam Characteristic-Sequence II (mL/mL)	10/0	10/0	10/0	10/0	10/0	10/0	10/0
Foam Characteristic-Sequence III (mL/mL)	Nil/0	Nil/0	Nil/0	Nil/0	Nil/0	Nil/0	Nil/0
Copper Corrosion	1b	1b	1b	1b	1b	1b	1b
FZG : Load Stage	13 th Pass	13 th Pass	13 th Pass	13 th Pass	13 th Pass	13 th Pass	13 th Pass

*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 Gear 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.