

Description

Nexus Gear LX offers significantly higher efficiency compared to conventional gear oils. Its advanced formulation enables oil drain intervals up to **3 to 5 times longer**, while maintaining lower operating temperatures.

Nexus Gear LX is designed to support extended maintenance intervals, improved energy efficiency, and reliable component protection, even when operating near the gearbox performance limits. The optimized additive system enhances thermal stability and helps reduce friction within the gear system.

Applications

Nexus Gear LX is recommended for use in a wide range of industrial gear systems operating under moderate to severe conditions, including:

- **Enclosed Industrial Gear Drives**
Suitable for spur, helical, bevel, and planetary gear systems requiring high-performance lubrication.
- **Heavy-Duty Gearboxes**
Recommended for equipment operating under high load, shock load, or continuous operation.
- **High-Temperature Applications**
Ideal for systems where reduced operating temperature and enhanced thermal stability are required.
- **Circulating and Splash Lubrication Systems**
Compatible with both splash and forced lubrication systems.
- **Bearings and Ancillary Components**
Suitable for lubricating bearings associated with gear systems where EP performance is required.
- **Applications Requiring Extended Oil Life**
Particularly suited for operations where extended maintenance intervals and reduced downtime are critical.
- **Textile Machinery**
Recommended for gearboxes in weaving, spinning, and finishing equipment requiring reliable EP protection under continuous operation.

Benefits

- **Enhanced Efficiency**
Reduced friction contributes to improved energy performance and lower operating temperatures.
- **Extended Oil Drain Intervals**
Superior oxidation resistance enables service intervals up to 3–5 times longer than standard mineral gear oils.
- **Lower Operating Temperature**
Improved lubrication characteristics help minimize heat generation during operation.
- **Advanced Wear Protection**
Specially formulated additives provide strong protection against wear, scuffing, and micropitting.
- **Oxidation Stability**
High resistance to oxidation helps prevent sludge formation and deposit build-up.
- **Reliable Performance at High Load**
Maintains protection and performance even at the limits of gear operation.

	LX68	LX100	LX150	LX220	LX320	LX460	LX680
ISO Viscosity Grade, ASTM D 2442	68	100	150	220	320	460	680
Density @ 20°C	0.8451	0.8652	0.8773	0.8796	0.9052	0.9122	0.9235
Kinematic Viscosity @ 40°C/104°F, ASTM D 445	67.8	101.2	159.9	242.2	319.8	460	680
Kinematic Viscosity @ 100°C/212°F, ASTM D 445	8.53	11.5	16.2	22.82	23.5	31.5	43
Viscosity Index, ASTM D 2270	>120	>120	>120	>120	>120	>120	>120
Flash Point, ASTM D 92, COC, °C/°F	>220/428	>220/428	>220/428	>220/428	>220/428	>220/428	>220/428
Fire Point, ASTM D 92, COC, °C/°F	>270/518	>270/518	>270/518	>270/518	>270/518	>270/518	>270/518
Pour Point, ASTM D 97, °C/°F	-18/-0.4	-18/-0.4	-18/-0.4	-18/-0.4	-18/-0.4	-18/-0.4	-18/-0.4
Scardiameter, Fourball, ASTM D4172-20, mm	0.45	0.55	0.71	0.51	0.5	0.5	0.55
Foam Sequence I – tendency / stability, ASTM D892, ml / ml	50/0	50/0	50/0	50/0	50/0	50/0	50/0
Welding Point, Fourball, ASTM D2783-19, kgf	200	300	500	500	500	500	500

*Subject to usual manufacturing tolerances

Nexus Gear LX

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