NEXUS LUBRICANT

Product Data Sheet

NEXUS EXTREME PRESSURE GEAR OIL

PERFORMANCE GEAR OIL

Description

Nexus EP Gear Oil is a high-performance extreme pressure lubricant formulated with high-quality base oils and advanced additive technology to provide reliable protection under severe operating conditions.

The product is designed to protect gear systems operating at elevated temperatures, high speeds, and under heavy loads, including shock loading conditions. Its robust formulation helps prevent scuffing, scoring, corrosion, and pitting, ensuring long component life and dependable operation in high torque and high horsepower applications.

Applications

Nexus EP Gear Oil is recommended for lubrication 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

- **Reliable Extreme Pressure Protection**
  Provides effective protection against scuffing, scoring, and pitting under heavy and shock loading conditions.
- **Consistent Performance in Continuous Operation**
  Maintains stable lubrication performance in equipment running 24/7, such as textile machinery.
- **Suitable for Textile Gear Systems**
  Ensures reliable protection for gearboxes in weaving, spinning, and finishing machines operating at moderate speeds and loads.
- **Robust Wear Protection**
  Forms a protective lubricating film to reduce wear on gears and bearings, extending component life.
- **Good Load Carrying Capability**
  Handles moderate to high loads effectively across a wide range of industrial applications.
- **Corrosion Protection**
  Protects metal surfaces from rust and corrosion during operation and idle periods.
- **Operational Stability in Harsh Environments**
  Performs reliably in dusty, humid, and high-contamination environments such as textile and general manufacturing plants.
- **Balanced Oxidation Resistance**
  Provides adequate resistance to oxidation for standard service intervals.
- **Cost-Effective Maintenance**
  Offers dependable protection with economical operating cost, ideal for large-scale plant usage.

	EP68	EP100	EP150	EP220	EP320	EP460	EP680
ISO Viscosity Grade, ASTM D 2442	68	100	150	220	320	460	680
Density @ 20°C	0.865	0.875	0.8	0.879	0.9	0.915	0.922
Kinematic Viscosity @ 40°C/104°F, ASTM D 445	68	100	150	241.7	320	460	680
Kinematic Viscosity @ 100°C/212°F, ASTM D 445	8.5	10.5	13.5	21.75	23	30	40
Viscosity Index, ASTM D 2270	>110	>110	>110	>110	>110	>110	>110
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	>250/482	>250/482	>250/482	>250/482	>250/482	>250/482	>250/482
Pour Point, ASTM D 97, °C/°F	min -9/15.8	min -9/15.8	min -9/15.8	min -9/15.8	min -9/15.8	min -9/15.8	min -9/15.8
Scardiameter, Fourball, ASTM D4172-20, mm	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Water Content, ASTM D6304-20, %vol	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Welding Point, Fourball, ASTM D2783-19, kgf	500	500	500	500	500	500	500

*Subject to usual manufacturing tolerances

Nexus Extreme Pressure Gear Oil

20 Mar 2024

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