NEXUS LUBRICANT

Product Data Sheet

NEXUS HD GEAR OIL

Description

Nexus HD Gear Oil is a general-purpose heavy-duty gear lubricant formulated with quality synthetic blend base oils and balanced additive technology to provide reliable protection for industrial gear systems operating under moderate conditions.

The product is designed for gear applications that do not require extreme pressure performance or operation at elevated temperatures. It offers dependable lubrication, good wear protection, and stable performance for everyday industrial use.

Nexus HD Gear Oil is an economical solution for a wide range of gearboxes across multiple industries, making it ideal for cost-conscious operations without compromising basic equipment protection.

Application

Nexus HD Gear Oil is recommended for lubrication of general-purpose gear systems operating under normal load and temperature conditions, including:

- **General Industrial Gearboxes**
  Suitable for spur, helical, and bevel gears in standard operating conditions.
- **Automotive & Workshop Equipment**
  Applicable for gear systems in light-duty vehicles, workshop machinery, and service equipment.
- **Plastic and Injection Molding Machinery**
  Recommended for gear drives in plastic processing equipment operating under moderate load.
- **Light to Medium Duty Equipment**
  Suitable for machinery operating without extreme load or shock conditions.
- **Circulating and Splash Lubrication Systems**
  Compatible with oil bath and circulating lubrication systems.
- **Wide Industrial Applications**
  Ideal for plant-wide lubrication across various industries requiring cost-effective gear oil solutions.

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Advantages

- **Cost-Effective Lubrication**
  Provides reliable performance at an economical cost for general industrial use.
- **Adequate Wear Protection**
  Reduces wear on gears and bearings under normal operating conditions.
- **Stable Performance in Standard Conditions**
  Maintains consistent lubrication in moderate temperature and load environments.
- **Good Oxidation Stability**
  Resists oil degradation for standard service intervals.
- **Corrosion Protection**
  Protects metal surfaces from rust during operation and idle periods.
- **Wide Applicability**
  Suitable for a broad range of general-purpose gear applications across industries.
- **Easy Maintenance**
  Supports straightforward maintenance practices with predictable performance.Typical Characteristics

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	HD68	HD100	HD150	HD220	HD320	HD460	HD680
ISO Viscosity Grade, ASTM D 2442	68	100	150	220	320	460	680
Density @ 20°C	0.86	0.87	0.88	0.89	0.9	0.91	0.92
Kinematic Viscosity @ 40°C/104°F, ASTM D 445	68	100	150	220	320	460	680
Kinematic Viscosity @ 100°C/212°F, ASTM D 445	8.5	10.5	13.5	19.22	23.5	30	40
Viscosity Index, ASTM D 2270	>95	>95	>95	>95	>95	>95	>95
Flash Point, ASTM D 92, COC, °C/°F	210/410	210/410	215/419	215/419	220/428	220/428	220/428
Fire Point, ASTM D 92, COC, °C/°F	>240/464	>240/464	>240/464	>240/464	>240/464	>240/464	>240/464
Pour Point, ASTM D 97, °C/°F	-6/21	-6/21	-6/21	-9/16	-9/16	-9/16	-9/16
Scardiameter, Fourball, ASTM D4172-20, mm	0.5	0.5	0.5	0.55	0.55	0.55	0.55

*Subject to usual manufacturing tolerances

Nexus Heavy Duty Gear Oil

20 Mar 2024

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