NEXUS LUBRICANT

Product Data Sheet

NEXUS LS SERIES

HIGH TEMPERATURE CHAIN OIL

Description

Nexus LS High Temperature Chain Oils are specially formulated for the lubrication of chains operating under high temperature and heavy load conditions. The advanced formulation delivers excellent load-carrying capacity and anti-wear performance, ensuring reliable protection of chain components.

These oils are designed to operate cleanly, forming virtually no lacquer or harmful residues, even at elevated temperatures, thereby helping to maintain system cleanliness and efficiency.

Nexus LS Series are engineered for a wide range of industrial chain applications and are suitable for use across various industries. The products are available in multiple viscosity grades to meet specific equipment and operating requirements.

Applications

Nexus LS Series is recommended for lubrication of chains operating under high-temperature and severe conditions, including:

- **Oven and Furnace Chains**
  Suitable for bakery ovens, paint curing ovens, and industrial furnaces operating at elevated temperatures.
- **Conveyor Chains**
  Used in drying, curing, and heat treatment processes where continuous operation is required.
- **Textile and Fiber Processing Chains**
  Applicable for stenter frames and other high-temperature textile machinery.
- **Wood, Paper, and Packaging Industry**
  Ideal for chains in drying and processing sections.
- **General Industrial Chain Applications**
  Recommended as a multi-service lubricant for plant-wide use across various chain systems.
- **Worn Chain Systems**
  Effective in chains with increased clearances, helping maintain lubrication film and reduce further wear.

Benefits

- **Superior Clean Operation**
  Special formulation minimizes lacquer, carbon, and residue formation, keeping chains clean even under prolonged high-temperature exposure.
- **High Load Carrying Capability**
  Designed to withstand heavy loads and shock loading, ensuring reliable protection in demanding industrial environments.
- **Enhanced Component Reliability**
  Maintains smooth chain movement and reduces the risk of chain stiffening or seizure.
- **Reduced Maintenance Intervention**
  Clean-running performance helps reduce cleaning frequency and maintenance downtime.
- **Thermal Stability Under Severe Conditions**
  Maintains consistent lubrication performance under continuous high-temperature operation.
- **Improved Equipment Uptime**
  Reliable lubrication reduces unexpected failures and supports uninterrupted production.
- **Controlled Consumption**
  Optimized formulation helps reduce oil consumption under high-temperature conditions.
- **Flexible Application Range**
  Available in various viscosity grades to accommodate different chain designs and operating requirements.

	NEXUS LS 150	NEXUS LS 220	NEXUS LS 320
ISO Viscosity Grade, ASTM D 2442	150	220	320
Specific Gravity, ASTM D 1298 @ 15.6°C/60°F	0.8768	0.8834	0.918
Kinematic Viscosity @ 40°C/104°F, ASTM D 445	165.4	211.9	323.2
Kinematic Viscosity @ 100°C/212°F, ASTM D 445	16.64	21.18	25.72
Viscosity Index, ASTM D 2270	>110	>110	>110
Flash Point, ASTM D 92, COC, °C/°F	>230/446	>230/446	>230/446
Fire Point, ASTM D 92, COC, °C/°F	>290/554	>290/554	>290/554
Auto Ignition Temperature, °C/°F	>380/716	>380/716	>380/716
Pour Point, ASTM D 97, °C/°F	min -9/15.8	min -9/15.8	min -9/15.8
Conradson Carbon Residue, ASTM D189 wt. %	<0.1	<0.1	<0.1
Scardiameter, Fourball, ASTM D4172-20, mm	0.73	0.72	0.72

*Subject to usual manufacturing tolerances

Nexus LS Series

20 Mar 2024

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