MOL LUBE
British High Performance Lubricants

TECHNICAL DATA SHEET
Rev.05_01.05.2025

Industrial Lubricants

MOL-GEAR
Series

Product Description:

MOL GEAR series are CLP class high performance extreme pressure gear oils developed for lubrication of heavy-duty industrial gears working under severe operating conditions. Blended from high quality base stocks and sulphur-phosporous type extreme pressure additive system that gives excellent load carrying capability to provide protection against shock loading and wear. The high thermo-oxidative stability of the oil helps resist high temperature deposit formation and oil thickening. In addition, they also possess excellent water separation characteristics and offer resistance to foaming.

Features:

- Excellent load carrying capability protects gears against scuffing, wear, offers long equipment life, and reduced maintenance costs.
- High thermo-oxidative stability helps to resist deposit formation, provides enhanced system cleanliness and enables longer service intervals.
- Provides effective rust and corrosion protection to all gearbox components and the excellent demulsibility properties enable trouble-free operation in conditions encountering water.

Applications:

MOL GEAR series are applicable in a wide range of industrial spur, helical, bevel and steel-onsteel worm gears, in heavy-duty industrial enclosed gears operating under conditions and requiring extreme pressure performance, in journal and roller contact industrial bearings operating at low speeds and high loads and is suitable for splash, mist and circulating systems.

Specifications:

- DIN 51517 Part 3 CLP (except ISO VG 1000)
- AGMA 9005-E02
- US Steel 224
- ISO 12925-1 Type CKD, ISO 680 CKC
- David Brown S1.53.101, 102, 103, 104
- Cincinnati Machine P 34, 35, 59, 63, 74, 76,

Storage and Packing Conditions:

- Should be stored sealed under normal storage conditions. Shelf life in original package and at room temperature is 3 years.
- Available in 20 LT Pails, 208 LT Drums and 1000 LT IBCs.

Physical and Chemical Conditions:

,

MOL-GEAR	Method	Unit	68	100	150	220
Appearance	Visual	-	B&C	B&C	B&C	B&C
Density @ 15° C	ASTM D 4052	g/cm^3	0.887	0.891	0.897	0.899
Kinematic Viscosity @ 40° C	ASTM D 445	cSt	68	100	150	220
Kinematic Viscosity @ 100° C	ASTM D 445	cSt	8.7	11.4	15	19.4
Viscosity Index	ASTM D 2270	-	99	100	100	100
Flash Point, (COC)	ASTM D 92	°C	236	240	240	240
Pour Point	ASTM D 97	°C	-24	-24	-24	-18
MOL-GEAR	**Method**	**Unit**	**320**	**460**	**680**	**1000**
Appearance	Visual	-	B&C	B&C	B&C	B&C
Density @ 15° C	ASTM D 4052	g/cm^3	0.903	0.904	0.912	0.931
Kinematic Viscosity @ 40° C	ASTM D 445	cSt	320	460	680	1000
Kinematic Viscosity @ 100° C	ASTM D 445	cSt	25	30.8	38	45.5
Viscosity Index	ASTM D 2270	-	100	97	92	85
Flash Point, (COC)	ASTM D 92	°C	255	260	272	290
Pour Point	ASTM D 97	°C	-15	-12	-9	-6

*Meets the requirements of the OEM manufacturer.
*The stated values can fluctuate within the normal range.

Human Health and Work Safety:

- Normal safety precautions (gloves and safety goggles) Should be employed
- Avoid eye and prolonged skin contact.
- Wash thoroughly after handling material.
- Don't discharge used oil in drains, dispose to an authorized used oil collection point
- For more information, please see the Material Safety Data Sheet (MSDS).