



## eni Grease LCX

**eni Grease LCX** are a lithium complex greases formulated with synthetic base oil (PAO) of different viscosity grade and NLGI consistency suitable for high and low temperature applications. The anti-wear and EP (Extreme Pressure) additives provide an outstanding performance where sliding friction and high loads are present while the grease stability during the time has been assured using synthetic base oils and a special combination of rust/corrosive inhibitors and antioxidant additives. The grease stability allows the reductions of downtime and maintenance costs.

### CHARACTERISTICS (TYPICAL VALUES)

eni Grease LCX			2/32	2/100	1/220	2/220	1,5/460
NLGI Consistency	Method ASTM	Unit	2	2	1	2	1,5
Appearance			Smooth-textured	Smooth-textured	Smooth-textured	Smooth-textured	Smooth-textured
Colour			Light gray	Light gray	Light gray	Light gray	Light gray
Worked penetration @ 25°C	D 217	1/10mm	290	290	325	280	300
Dropping point	D 566	°C	290	290	280	290	290
Anti-rust protection	D 1743		pass	pass	pass	pass	pass
4-Ball Weld, Load	D 2596	kg	250	250	315	315	315
Timken OK, Load	D 2509	lb	>40	>45	>45	>45	>45
Base oil viscosity @ 40°C	D 445	mm <sup>2</sup> /s	32	100	220	220	460

Property	Advantages and performance
Outstanding performance at high and low temperature.	The combination of synthetic base oils and the Lithium complex thickener provides a very high dropping point and the outstanding cold behaviour assuring an excellent performance at high and low temperature.
High oxidation stability.	The high oxidation resistance prolongs the service life extending the re-lubrication intervals even when exposed to high mechanical and thermal stress.
Excellent adhesiveness and resistance to water washout.	The excellent adhesiveness and resistance to water washout make the greases suitable for application exposed to wet environment and in presence of water.
Outstanding load resistance.	The antiwear and EP properties make the greases suitable for applications exposed to elevated mechanical stress due to high loads and sliding couplings without failure of the lubricant film.
High protection against rust and corrosion.	The antirust and anticorrosion properties protect the lubricated component and the machinery, good compatibility with ferrous and nonferrous metals.



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## APPLICATIONS:

**eni Grease LCX** are top-tier products tailored to meet the most severe lubrication requirements of main industry: wind energy, steel, cement plants, paper and glass.

- **eni Grease LCX 2/32** is an anti-wear grease, NLGI 2 grade formulated with ISO VG 32 special synthetic base oil, recommended for very low temperature applications. Particularly suitable for the bearing and component lubrication devices operating at low temperatures and/or high speed conditions such as in outside environments, in refrigeration plants (not in contact with food).
  - Recommended operating temperature range: -50°C/+150°C.
- **eni Grease LCX 2/100** is an anti-wear grease, NLGI 2 grade formulated with ISO VG 100 special synthetic base oil. Particularly suitable for the bearing and component lubrication devices operating at high speed such as electric motors, where long lubrication intervals are required. Recommended for lubrication of wind turbine generators.
  - Recommended operating temperature range: -45°C/170°C.
- **eni Grease LCX 1/220** is a multi-purpose, NLGI 1 extreme pressure grease, formulated with ISO VG 220 special synthetic base oil. Particularly recommended in plants where a centralized lubrication systems is present such as continuous casters, rolling mills, hot presses and continuous paper machines.
  - Recommended operating temperature range: -40°C/+170°C.
- **eni Grease LCX 2/220** is a multi-purpose, NLGI 2 extreme pressure grease, formulated with ISO VG 220 special synthetic base oil. Particularly recommended for the bearing and component lubrication devices operating under very severe conditions where high temperatures and high loads are present such as couplings, paper machine and rolling mill bearings.
  - Recommended operating temperature range: -40°C/+170°C.
- **eni Grease LCX 1,5/460** is NLGI 1,5 extreme pressure grease, formulated with ISO VG 460 special synthetic base oil. Particularly indicated for use in reduction gear operating at slow speed, high loads in wet environmental and at high temperature, such as steel and paper industry. Recommended for lubrication of the bearings that regulate the yaw and the pitch of wind turbine blades. Suitable for excavators and TBM (Tunnel Boring Machine).
  - Recommended operating temperature range: -40°C/+190°C.

## SPECIFICATIONS AND APPROVALS

**eni Grease LCX** meet the requirements of the following specifications/classifications:

eni Grease LCX	2/32	2/100	1/220	2/220	1,5/460
DIN 51825	KPHC 2N -50	KPHC 2 P -40	KPHC 1P -40	KPHC 2P -40	KPHC 1,5R -40
ISO 12924	L-XEDHB 2	L-XDEHB 2	L-XDEHB 1	L-XDEHB 2	L-XDFHB 1,5

## NOTICE

It is not recommended to mix with greases of different types (thickener) to avoid incompatibility issues.

**eni** Technical Support is available for guidance on the greases compatibility.