



DIMENSION GREASE

HIGH SPEED & TEMPERATURE GREASE EP

NLGI 2 · Blue

-40°C

MIN. OPERATING

**+150°C**

MAX. OPERATING

-45° / +160°C

EXTENDED RANGE

THICKENER
Lithium ComplexBASE OIL
Fully SyntheticDROP POINT
>250°CFLASH POINT
>200°C**High Speed Bearings**

Ventilators, fans, blowers, electric motors at high speed & elevated temp

2-3× Longer Intervals

Extended lube intervals vs standard greases. Advanced additive package reduces working temp.



LITHOPLEX

LOW / HIGH TEMP SYNTHETIC GREASE EP

NLGI 2 · Brown / Amber

-50°C

MIN. OPERATING

**+160°C**

MAX. OPERATING

Peak +180°C

SHORT DURATION

THICKENER
Lithium ComplexBASE OIL
Fully SyntheticDROP POINT
>270°CEP RATING
High (EP)**Heavy-Duty EP Performance**

Extreme pressure rated – heavy loads, severe vibrations, shock loads in industrial plant

Widest Temperature Range

From -50°C to +160°C (+180°C peaks) – broadest operating range of the two greases

DIMENSION GREASE – OVERVIEW

High-performance grease based on fully synthetic base oil and lithium complex thickener. Specially designed for fast bearings on ventilators, fans, blowers, and electric motors operating at elevated temperatures. Advanced additive package provides extremely low coefficient of friction, reduces working temperature, absorbs vibrations and shocks, and enables cold starts. Excellent mechanical stability, anti-wear properties, and outstanding oxidation resistance permit lubricant intervals 2–3 times longer than standard greases.

LITHOPLEX – OVERVIEW

Premium, fully synthetic lithium-complex EP grease engineered for heavy-duty industrial and mechanical applications. Withstands extreme temperatures (–50°C to +160°C, peaks to +180°C), heavy loads, and water exposure. Outstanding resistance to mechanical shear, oxidation, and water washout. Low starting resistance ensures smooth operation in frigid environments. Drop point >270°C. Ideal for electric motor bearings, water pumps, heavy industrial plant, and equipment under severe vibration and shock loads.

SIDE-BY-SIDE COMPARISON – DIMENSION GREASE VS LITHOPLEX

PROPERTY	DIMENSION GREASE	LITHOPLEX
NLGI Grade	2	2
Thickener	Lithium Complex	Lithium Complex
Base Oil	Fully Synthetic	Fully Synthetic
Colour	Blue	Brown / Amber
Min. Operating Temp.	-40°C (-45°C extended)	-50°C
Max. Operating Temp.	+150°C (+160°C extended)	+160°C (+180°C peaks)
Drop Point	>250°C	>270°C
EP (Extreme Pressure)	Yes	Yes (EP rated)
Primary Strength	High speed, vibration, cold starts	Heavy loads, shock, widest temp range
Pack Size (shown)	400g cartridge (also 1kg, 5kg, 18kg, 50kg, 180kg)	400g cartridge

DIMENSION GREASE – TYPICAL APPLICATIONS

Ventilators & fans

Blowers

Electric motors

High-speed bearings

Journal & roller bearings

High-temp environments

Water & humidity exposure

LITHOPLEX – TYPICAL APPLICATIONS

Electric motor bearings

Water pumps

Heavy industrial plant

Journal & roller bearings

Severe vibration & shock

Heavy-load machinery

Sub-zero environments

SAFETY DATA & PSC GROUP OFFICES

1 PHYSICAL & CHEMICAL PROPERTIES (DIMENSION GREASE)

FORM Pasty	COLOUR Blue
FLASH POINT >200°C	DROP POINT >250°C
DENSITY @ 20°C ~0.92 g/cm ³	SOLUBILITY IN WATER Not miscible
SELF-IGNITION Not self-igniting	EXPLOSION RISK Not explosive

3 HAZARDS & FIRST AID (MSDS SEC. 2 & 4)

GHS Classification (Dimension Grease): No CLP hazard classification assigned (EC 1272/2008). No hazard statements or pictograms required. Not classified as hazardous under standard handling conditions.

INHALATION:	Aerate the room; if necessary consult a doctor. Prolonged exposure to vapour or mist may irritate respiratory tract.
SKIN CONTACT:	Remove contaminated clothing; wash off with soap and plenty of water. Frequent/prolonged contact may degrease and irritate skin.
EYE CONTACT:	Rinse opened eye for several minutes under running water. If necessary consult a doctor. May cause light irritation.
INGESTION:	Do not induce vomiting (risk of pneumonia). Seek medical attention. May cause GI irritation, nausea, vomiting, diarrhoea.

2 PHYSICAL & CHEMICAL PROPERTIES (LITHOPLEX)

FORM Pasty / Semi-solid	COLOUR Brown / Amber
MIN. TEMP. -50°C	MAX. TEMP. +160°C (+180°C peak)
DROP POINT >270°C	EP RATED Yes (Extreme Pressure)
WATER RESISTANCE Excellent	SOLUBILITY IN WATER Not miscible

4 HANDLING, STORAGE & FIRE (SEC. 5, 7, 8)

HANDLING:	Keep site ventilated. Avoid vapour respiration, skin and eye contact. Do not smoke or use near ignition sources.
STORAGE:	Store in tightly closed original containers. Cool, dry, well-ventilated place. Protect from direct sunlight and frost. Do not store below 0°C. Avoid storage with oxidants.
PPE / HANDS:	Nitrile rubber oil-resistant gloves (DIN/EN 374, 0.4mm, >240 min perforation). Safety glasses. Protective work clothing.
FIRE:	Extinguish with CO ₂ , foam, powder, or sand. Do not use water jet. Combustion produces carbon oxides, SO ₂ , nitrogen oxides, aliphatic/aromatic pyrolysis products.
SPILL:	Use non-flammable absorbing products (sand, fossil meal, vermiculite). Do not allow product to enter sewage system or groundwater. Avoid slipping hazard.
TRANSPORT:	Not classified as dangerous goods (ADR/RID, ICAO/IATA, IMDG). No UN number, packing group, or transport hazard class assigned.
DISPOSAL:	Waste key 12 01 12 (spent waxes and greases). Cannot be disposed with household garbage. Dispose per local regulations. Do not discharge to sewage or groundwater.

5 PSC GROUP - GLOBAL OFFICES

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