

perma LOAD LX 460-1 (SF181) perma LOAD LX 460-2 (SF191)

High Load EP grease

perma LOAD LX 460-1 & -2 greases are based on high-viscosity mineral base oils and lithium complex soap thickeners. The greases contain extreme-pressure, anti-wear, anti-oxidation and anti-corrosion additives. perma LOAD LX 460-1 & -2 greases are suitable for low-speed, high-load rolling bearings operating at elevated temperatures under severe and shock loading. They are also suited to plain bearings and pin and bush applications.

Advantages



EXCELLENT MECHANICAL STABILITY

Mechanical stability is the grease thickener resistance to softening and leaking under stress. Good mechanical stability is essential for long grease service life, retention in large, slow moving bearings and preventing contaminant entry.



GOOD ADHESION ON METAL SURFACES

Good adhesion aids retention in bearing contact zones and preventing contaminant entry, contributing to good lubrication conditions.



GOOD PUMPABILITY

Good pumpability assists in predicting grease dispensing outcomes for perma lubrication systems installed and operated within recommended guidelines.



EXCELLENT PROTECTION AGAINST EXTREME PRESSURES AND SHOCK LOADING

Good mechanical stability and adhesion aid grease retention under severe and shock loads. EP & AW additives reduce friction and provide wear protection where metal-to-metal contact occurs.



GOOD WATER WASH-OUT RESISTANCE

Good mechanical stability and good adhesion contribute to water wash-out resistance. Thickener type and anti-corrosion additives provide additional performance benefits in wet environments.



GOOD PROTECTION AGAINST OXIDATION

Oxidation is the primary way a lubricant degrades in normal service. Antioxidant additives prolong the service life of base oils and contribute to good oxidation resistance.

Application

perma LOAD LX 460-1 & -2 greases are high load EP lubricants suited for the lubrication of rolling bearing, plain bearing, and radial shaft seal applications.

These greases are suited to low speed, high load and severe duty bearing applications in mining & minerals processing, steel mills, cement & aggregate, pulp and paper and other heavy industries.

TYPICAL APPLICATIONS INCLUDE:

- Steel continuous caster and workroll bearings
- Cement and process kiln support roller bearings
- Paper mill felt roll, wet end and press section bearings
- Plate and apron feeder bearings in mining and construction industries
- Intercarrier and large, low speed bearing applications in the sugar industry
- Rolling bearings applications subject to pivoting motion
- Pin and bush applications

Product information

perma LOAD LX 460-1 & -2 greases have been tested in perma lubrication systems to assess grease pumpability and oil bleed performance. This process assists in predicting the dispensing behavior from perma lubrication systems when installed and used within normal operating guidelines.

perma LOAD LX 460 is available in NLGI 2 [-2] AND NLGI 1 [-1] grades. The NLGI 1 grade grease offers enhanced pumpability in perma lubrication systems exposed to cold ambient temperatures down to 0 °F / -18 °C.

Product data

perma Product Name	LOAD LX 460-1	LOAD LX 460-2
perma Grease Code	SF181	SF191
NLGI Grade	1	2
Color	Amber	Amber
Thickener	Lithium Complex	Lithium Complex
Base oil	Mineral Oil	Mineral Oil
Base oil viscosity, DIN 51562, at 40 °C, mm ² /s at 100 °C, mm ² /s	460 22.4	460 22.4
Dropping Point (ASTM D 2265)	482 °F / 250 °C	482 °F / 250 °C
Min working temperature	0 °F / -18 °C	0 °F / -18 °C
Max working temperature	284 °F / 140 °C	284 °F / 140 °C
Worked Penetration – 0.1mm (ASTM D 217)	310 - 340	265 - 295
Mechanical Stability - 100,000 strokes, % Change (ASTM D 217)	< 10 %	< 10 %
Water Spray-off, % loss (ASTM D 4049)	40 %	15 %
Oil Separation, % loss (ASTM D 1742)	< 5 %	< 3 %
Timken OK Load, Lbs. (ASTM D 2509)	70 lbs / 31.75 kg	70 lbs / 31.75 kg
4 Ball Weld (ASTM D 2596)	1760 lbs / 800 kg	1760 lbs / 800 kg



Conveyors



Pumps



Blowers | Fans

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