



LUBRICATION



**Special Industrial
Lubricants**



Table of Content



No:	Code	Description
1	PX3-100 MP2	Multipurpose Lithium Grease
2	PX3-100 MP3	Multipurpose Lithium Grease
3	PX3-Lithium EP	Multipurpose Extreme Pressure Lithium Grease
4	PX3-100 LX	Multipurpose Lithium Complex Grease
5	PX3-220 LX	Multipurpose EP Lithium Complex Grease
6	PX3-220 CS	Multipurpose Calcium Sulfonate Complex Grease EP
7	PX3-460 CS	Multipurpose Calcium Sulfonate Complex Grease EP
8	PX3-500 B	High Viscosity Bentone Grease
9	PX3-460 BMG	High Viscosity Bentone Grease with MoS2 & Graphite
10	PX3-1000 CA	Anhydrous Calcium Grease with Polymer
11	PX3-500 CSG	High Viscosity Calcium Sulfonate Complex Grease with Solid Lubricants
12	PX3-1500 CSG	Extremely High Viscosity Calcium Sulfonate Complex Grease with Solid Lubricants
13	PX3-301	Sprayable Open Gear Grease with Graphite
14	PX3-301 RN	Running-in Open Gear Grease with Graphite
15	PX3-302	Wire Rope Grease with Graphite
16	PX3-303	Biodegradable Wire Rope Grease
17	PX3-304	Biodegradable Wire Rope Grease
18	PX3-305	Extremely High Viscosity Open Gear Fluid Lubricant
19	PX3-306	High Viscosity Open Gear Fluid Lubricant
20	PX3-307	Jacking Grease
21	PX3-701	Food Grade Calcium Complex Grease
22	PX3-702	Food Grade Silicone Grease
23	PX3-703	Food Grade Aluminium Complex Grease
24	PX3-704	Food Grade Aluminium Complex Grease
25	PX3-706	Food Grade Calcium Complex Grease
26	PX3-LS 004	Cotton Picker Spindle Grease
27	PX3-T.S.G	TBM Tail Seal Grease
28	PX3-H.S.G	TBM Main Bearing Seal Grease

PX3-100 MP2



Multipurpose Lithium Grease

High Performance

Description:

PX3-100 MP2 is a mineral oil based Lithium grease fortified with, **anti-wear**, **anti-oxidation** and **anti-corrosion** additives. This high performance grease is suitable for wide range of industrial and automotive applications.

Performance & Features:

- Good high temperature performance up to **130°C**
- Good oxidation resistance
- Excellent wear and corrosion protection
- Long storage life
- Good mechanical stability
- Equivalent to SHELL GADUS S2 V100 2 & SKF LGMT 2

Typical Applications:

- Electric motor bearing
- Automotive wheel bearing
- Agricultural equipment
- Water pump bearing
- Conveyors
- Industrial fans

Properties:

Specifications	Methods	Conditions	Unit	PX3-100 MP2
Base oil type				Mineral oil
Base oil viscosity @ 40 °C	ASTM D 445		cSt (mm ² /s)	100
Thickener type				Lithium Soap
Dropping point	ASTM D566		°C	>185
NLGI Consistency			NLGI- class	2
Worked penetration	ASTM D217	60 Dh	mm/10	265 – 295
Operating Temperature Range				-20 °C to + 130 °C
Colour				Brown



Golestan Street. No 55.
Parandak Industrial
Town. Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

PX3-100 MP3



Multipurpose Lithium Grease

High Performance

Description:

PX3-100 EP3 is a mineral oil based Lithium grease fortified with **anti-wear, anti-oxidation** and **anti-corrosion** additives. This premium quality, general purpose grease is suitable for a wide range of industrial and automotive applications requiring stiff grease.

Performance & Features:

- Good high temperature performance up to **+130 °C**
- Good oxidation and mechanical stability
- Excellent wear and corrosion protection
- Long storage life
- Equivalent to **SKF LGMT 3** & **Shell Gadus S2 V100 3**

Typical Applications:

- Electric motor bearing
- Car, truck and trailer wheel bearings
- Agricultural equipment
- Continuous high ambient temperature
- Water pump bearings
- Vertical shaft applications
- Propeller shafts

Properties:

Specifications	Methods	Conditions	Unit	PX3-100 MP3
Base oil type				Mineral oil
Base oil viscosity @ 40 °C	ASTM D 445		cSt (mm ² /s)	100
Thickener type				Lithium Soap
Dropping point	ASTM D566		°C	>185
NLGI Consistency			NLGI- class	3
Worked penetration	ASTM D217	60 Dh	mm/10	220 – 250
Operating Temperature Range				-20 °C to + 130 °C
Colour				Brown



Golestan Street. No 55.
Parandak Industrial
Town. Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

PX3-Lithium EP



Multipurpose Extreme Pressure Lithium Grease

Extreme Pressure, High Performance

Description:

PX3-Lithium EP is a mineral oil based Lithium grease fortified with Extreme pressure (EP), anti-wear, anti-oxidation and anti-corrosion additives. This grease is recommended for most types of industrial applications including heavy-duty applications where high unit pressures or shock loads are present.

Performance & Features:

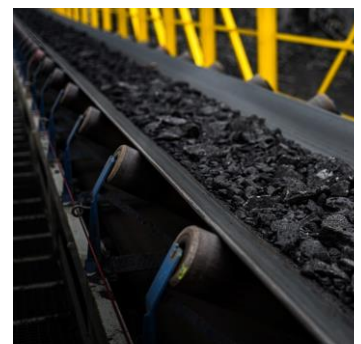
- Good high temperature performance up to **130°C**
- Good oxidation resistance
- Excellent wear and corrosion protection
- Excellent EP performance
- Long storage life
- Excellent mechanical stability
- Equivalent to SHELL GADUS S2 V220 & SKF LGMT 2

Typical Applications:

- Construction machinery
- Heavy duty bearing and general industrial lubrication
- Jaw crushers
- Crane wheels, sheaves
- Conveyors
- Automotive

Properties:

Specifications	Methods	Conditions	Unit	PX3-Lithium EP2	PX3-Lithium EP3
Base oil type				Mineral oil	Mineral oil
Base oil viscosity @ 40 °C	ASTM D 445		cSt (mm ² /s)	220	220
Thickener type				Lithium Soap	Lithium Soap
Dropping point	ASTM D566		°C	>185	>185
NLGI Consistency			NLGI- class	2	3
Worked penetration	ASTM D217	60 Dh	mm/10	265 – 295	220 – 250
Four Ball Weld Load	ASTM D 2596		Kgf	>=250	>=250
Operating Temperature Range				-20 °C to + 130 °C	-20 °C to + 130 °C
Colour				Brown	Brown



Golestan Street. No 55.
Parandak Industrial
Town. Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

Multipurpose Lithium Complex Grease

High Temperature, High Performance

Description:

PX3-100 LX is a mineral oil based Lithium Complex grease fortified with Extreme pressure (EP), anti-wear, anti-oxidation and anti-corrosion additives. PX3-100 LX is recommended for general industrial and automotive applications, when loads or temperatures exceed the range of general purpose greases.

Performance & Features:

- Excellent high temperature performance up to 150°C (180°C Peak)
- Excellent oxidation resistance
- Excellent corrosion protection
- Long life
- Excellent mechanical stability
- Equivalent to SHELL GADUS S3 V100

Typical Applications:

- Electric motor bearing operating at high temperature
- Automotive wheel bearing
- Industrial fan bearing
- Industrial air blower

Properties:

Specifications	Methods	Conditions	Unit	PX3-100 LX2	PX3-100 LX3
Base oil type				Mineral oil	Mineral oil
Base oil viscosity @ 40 °C	ASTM D 445		cSt (mm ² /s)	100	100
Thickener type				Lithium Complex Soap	Lithium Complex Soap
Dropping point	ASTM D566		°C	>250	>250
NLGI Consistency			NLGI- class	2	3
Worked penetration	ASTM D217	60 Dh	mm/10	265 – 295	220 – 250
Operating Temperature Range				-20 °C to + 150 °C (Peak +180 °C)	-20 °C to + 150 °C (Peak +180 °C)
Colour				Brown	Brown



Golestan Street. No 55.
Parandak Industrial
Town. Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

PX3-220 LX



Multipurpose Lithium Complex Grease

Extreme Pressure, High Performance, High Temperature

Description:

PX3-220 LX is multipurpose greases based on mineral oil and Lithium Complex thickener fortified with Extreme Pressure (EP), Anti-wear, Anti-Oxidation and Anti-Corrosion additives. PX3-220 LX is suitable for bearings operating at high temperature under load and vibrations.

Performance & Features:

- Excellent high temperature performance up to **180°C**
- Excellent oxidation resistance
- Excellent wear and corrosion protection
- Excellent EP performance
- Long life
- Excellent mechanical stability
- Equivalent to SHELL GADUS S3 V220 & MOBIL GREASE XHP 222

Typical Applications:

- Car, truck and trailer wheel bearing
- Various shock loaded or vibrating applications
- Jaw crushers
- Agriculture and off road vehicles
- Construction machinery
- U-joints

Properties:

Specifications	Methods	Conditions	Unit	PX3-220 LX2	PX3-220 LX3
Base oil type				Mineral oil	Mineral oil
Base oil viscosity @ 40 °C	ASTM D 445		cSt (mm ² /s)	220	220
Thickener type				Lithium Complex Soap	Lithium Complex Soap
Dropping point	ASTM D566		°C	>260	>260
NLGI Consistency			NLGI- class	2	3
Worked penetration	ASTM D217	60 Dh	mm/10	265 – 295	220 – 250
Four Ball Weld Load	ASTM D 2596		Kgf	>=250	>=250
Operating Temperature Range				-20 °C to + 150 °C (Peak 180 °C)	-20 °C to + 150 °C (Peak 180 °C)
Colour				Brown	Brown



Golestan Street. No 55.
Parandak Industrial
Town. Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

PX3-220 CS



Multipurpose Calcium Sulfonate Complex Grease

Extreme Pressure, High Temperature, Water Resistant

Description:

PX3-220 CS is based on mineral oil and latest **Calcium Sulfonate Complex** thickener technology fortified with high performance additives. **PX3-220 CS** is recommended for most types of industrial applications including heavy-duty applications where high unit pressures or shock loads, wet environments and high temperatures are present.

Performance & Features:

- Outstanding high temperature performance up to **200°C**
- Excellent oxidation resistance
- Excellent wear and corrosion protection
- Excellent **Extreme Pressure** performance
- Water Resistant
- Long life
- Excellent mechanical stability

Typical Applications:

- Heavy duty bearing and general industrial lubrication
- Loaders, Excavators, Cranes
- Stone crushers, Excavators
- Conveyors
- Car & Truck wheel bearing
- Pellet mills
- Pulp and paper making machines

Properties:

Specifications	Methods	Unit	PX3-220 CS1	PX3-220 CS2
Base oil type			Mineral oil	Mineral oil
Base oil viscosity @ 40 °C	ASTM D 445	cSt (mm ² /s)	220	220
Thickener type			Calcium Sulfonate Complex	Calcium Sulfonate Complex
Dropping point	ASTM D566	°C	≥300	≥300
NLGI Consistency		NLGI- class	1	2
Worked penetration	ASTM D217	mm/10	310 – 340	265 – 295
Four Ball Weld Load	ASTM D 2596	Kgf	>=400	>=400
Water Washout Test	ASTM D 1264	%Loss	-	1.5
Operating Temperature Range			-20 °C to + 200 °C	-20 °C to + 200 °C
Colour			Light Brown	Light Brown



Golestan Street. No 55.
Parandak Industrial
Town: Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

PX3-460 CS



Multipurpose Calcium Sulfonate Complex Grease

High Temperature, Extreme Pressure, Water Resistant

Description:

PX3-460 CS is mineral oil based grease using the latest **Calcium Sulfonate Complex** thickener technology. It is suitable for applications subjected to high loads, vibrations, wet environments and high temperatures. This Grease is an excellent choice for steel mill and marine applications.

Performance & Features:

- Outstanding high temperature performance up to **+200 °C**
- Excellent oxidation and mechanical stability
- Excellent corrosion resistance characteristics
- Very high load carrying capacity
- Extremely water resistant
- Equivalent to TOTAL CERAN XM

Typical Applications:

- Work roll bearings in steel industry
- Continuous casting machines
- Marine and offshore applications
- Sealed spherical roller bearings operating up to 180 °C
- **PX3-460 CS 1.5 is recommended for central lubrication systems**

Properties:

Specifications	Methods	Conditions	Unit	PX3-460 CS 1.5	PX3-460 CS 2
Base oil type				Mineral oil	Mineral oil
Base oil viscosity @ 40 °C	ASTM D 445		cSt (mm ² /s)	460	460
Thickener type				Calcium Sulfonate Complex	Calcium Sulfonate Complex
Dropping point	ASTM D566		°C	>300	>300
NLGI Consistency			NLGI- class	1.5	2
Worked penetration	ASTM D217	60 Dh	mm/10	280 – 310	265 – 295
Four Ball Weld Load	ASTM D 2596		Kgf	>=400	>=400
Operating Temperature Range				-20 °C to + 180 °C (Peak +200 °C)	-20 °C to + 180 °C (Peak +200 °C)
Colour				Brown	Brown



Golestan Street. No 55.
Parandak Industrial
Town. Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

PX3-500 B



High Viscosity Bentone Grease

High Temperature, Extreme pressure

Description:

PX3-500 B is formulated from a special blend of high viscosity solvent refined paraffin base oil thickened with bentonite clay. This non-soap grease is recommended for extremely high temperature applications. Unlike normal greases, Benton greases retain their consistency under increasing temperatures.

Performance & Features:

- Excellent high temperature performance up to **+200 °C**.
- High oxidation resistance.
- High load carrying capacity.
- Good mechanical stability.
- Highly resistant to change in consistency with temperatures.
- Water resistant.
- Good boundary lubrication.

Typical Applications:

- Kiln car wheel bearings.
- Furnace door bearings.
- Heat exchange motor bearings.
- Oven conveyor bearings and other applications where extremely high temperatures are encountered.

Properties:

Specifications	Methods	Conditions	Unit	PX3-500 B2	PX3-500 B3
Base oil type				Mineral oil	Mineral oil
Base oil viscosity @ 40 °C	ASTM D 445		cSt (mm ² /s)	500	500
Thickener type				Inorganic	Inorganic
Dropping point	ASTM D566		°C	None	None
NLGI Consistency			NLGI- class	2	3
Worked penetration	ASTM D217	60 Dh	mm/10	265 – 295	220 – 250
4 Ball Weld Load	ASTM D2596		Kgf	>=250	>=250
Operating Temperature Range				-20 °C to + 200 °C	-20 °C to + 200 °C
Colour				Beige	Beige



Golestan Street. No 55.
Parandak Industrial
Town. Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

PX3-460 BMG



High Viscosity Bentone Grease with MoS2 & Graphite

High Temperature, Extreme Pressure, Water Resistant

Description:

PX3-460 BMG is a mineral oil based Bentone grease suitable for high temperature applications. It contains fine **molybdenum disulfide** and **graphite** solid lubricants, anti-oxidant and anti-corrosion additives. It does not melt and resists chemical degradation at high temperatures and thus protects equipment under severe high temperature operating conditions.

Performance & Features:

- Excellent high temperature performance up to **+200 °C**.
- High load carrying capacity
- High oxidation resistance.
- Good mechanical stability.
- Highly resistant to change in consistency with temperatures.
- Water resistant.
- Excellent boundary lubrication.

Typical Applications:

- Kiln car wheel bearings.
- Furnace door bearings.
- Heat exchange motor bearings.
- Low speed bearings
- Oven conveyor bearings and other applications where extremely high temperatures are encountered.

Properties:

Specifications	Methods	Conditions	Unit	PX3-460 BMG 2	PX3-460 BMG 3
Base oil type				Mineral oil	Mineral oil
Base oil viscosity @ 40 °C	ASTM D 445		cSt (mm ² /s)	460	460
Thickener type				Inorganic	Inorganic
Dropping point	ASTM D566		°C	None	None
NLGI Consistency			NLGI- class	2	3
Worked penetration	ASTM D217	60 Dh	mm/10	265 – 295	220 – 250
4 Ball Weld Load	ASTM D2596		Kgf	>=315	>=315
Operating Temperature Range				-20 °C to + 200 °C	-20 °C to + 200 °C
Colour				Black	Black



Golestan Street. No 55.
Parandak Industrial
Town. Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

PX3-1000 CA



Anhydrous Calcium Grease with Polymer

Water Resistant, Anti-Wear, High Adhesiveness

Description:

PX3-1000 CA is anhydrous calcium grease based on mineral oil and special polymer. **PX3-1000 CA** provides excellent water resistance and stickiness to surfaces as well as very good anti-wear properties.

Performance & Features:

- Good high temperature performance up to **120°C**
- Excellent wear and corrosion protection
- Extremely water resistant
- Excellent mechanical stability
- High Adhesiveness
- Economic

Typical Applications:

- Construction equipment
- Heavy duty off-road applications such as excavators, wheel loaders, etc
- Forestry and agricultural equipment
- Low to medium speed plain and rolling bearings

Properties:

Specifications	Methods	Unit	PX3-1000 CA 2	PX3-1000 CA 3
Base oil type			Mineral oil + Polymer	Mineral oil + Polymer
Base oil viscosity @ 40 °C	ASTM D 445	cSt (mm ² /s)	1000	1000
Thickener type			Anhydrous Calcium	Anhydrous Calcium
Dropping point	ASTM D566	°C	>=145	>=145
NLGI Consistency		NLGI- class	2	3
Worked penetration	ASTM D217	mm/10	265 – 295	220 – 250
Four Ball Weld Load	ASTM D 2596	Kgf	>=200	>=200
Operating Temperature Range			-20 °C to + 120 °C	-20 °C to + 120 °C
Colour			Brown	Brown



Golestan Street. No 55.
Parandak Industrial
Town: Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

PX3-500 CSG



High Viscosity Calcium Sulfonate Complex Grease with Solid Lubricants

Extreme Pressure, High Performance, High Temperature

Description:

PX3-500 CSG is based on high viscosity mineral oil and Calcium Sulfonate Complex thickener technology. This grease is fortified with extreme pressure (EP), anti-wear, anti-oxidation, anti-corrosion and **Solid Lubricants** to provide outstanding protection under high pressure conditions at startups, slow rotations and vibrations.

Performance & Features:

- Good high temperature performance up to +200 °C.
- Contains **Graphite**.
- Excellent protection under extreme pressure and vibrations.
- Excellent mechanical stability.
- Very high oxidation stability.
- Excellent boundary lubrication during startups and oil starvation.

Typical Applications:

- Rolling element bearings running at low speed and very high loads.
- Jaw crushers.
- Building machines such as mechanical rams, crane arms and crane hooks.
- **PX3-500 CSG 1** is recommended for centralized lubrication systems.

Properties:

Specifications	Methods	Conditions	Unit	PX3-500 CSG 1	PX3-500 CSG 2
Base oil type				Mineral oil	Mineral oil
Base oil viscosity @ 40 °C	ASTM D 445		cSt (mm ² /s)	500	500
Thickener type				Calcium Sulfonate Complex	Calcium Sulfonate Complex
Dropping point	ASTM D566		°C	>260	>260
NLGI Consistency			NLGI- class	1	2
Worked penetration	ASTM D217	60 Dh	mm/10	310 – 340	265 – 295
4 Ball Weld Load	ASTM D2596		Kgf	>=400	>=400
Operating Temperature Range				-20 °C to + 200 °C	-20 °C to + 200 °C
Colour				Black	Black



Golestan Street. No 55.
Parandak Industrial
Town: Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

PX3-1500 CSG



Extremely High Viscosity Calcium Sulfonate Complex Grease with Solid Lubricants

Extreme Pressure, High Performance, High Temperature

Description:

PX3-1500 CSG is based on extremely high viscosity semi-synthetic oil and Calcium Sulfonate Complex thickener technology. This Grease is fortified with extreme pressure (EP), anti-wear, anti-oxidation and anti-corrosion additives and **Solid Lubricants** to provide outstanding protection under high pressure conditions at startups, very slow rotations and vibrations.

Performance & Features:

- Good high temperature performance up to +200 °C.
- Contains **Graphite**.
- Excellent protection under extreme pressure and vibrations.
- Excellent mechanical stability.
- Very high oxidation stability.
- Excellent boundary lubrication during startups and oil starvation.

Typical Applications:

- Trunnion bearings on rotating drums
- Support and thrust rollers on rotary kilns and dryers
- Bucket wheel excavators
- High pressure roller press mills
- Highly-loaded rolling bearings operating at low speeds
- **PX3-1500 CSG 1** is recommended for centralized lubrication systems.

Properties:

Specifications	Methods	Conditions	Unit	PX3-1500 CSG 1	PX3-1500 CSG 2
Base oil type				Semi-Synthetic oil	Semi-Synthetic oil
Base oil viscosity @ 40 °C	ASTM D 445		cSt (mm ² /s)	1500	1500
Thickener type				Calcium Sulfonate Complex	Calcium Sulfonate Complex
Dropping point	ASTM D566		°C	>260	>260
NLGI Consistency			NLGI- class	1	2
Worked penetration	ASTM D217	60 Dh	mm/10	310 – 340	265 – 295
4 Ball Weld Load	ASTM D2596		Kgf	>=500	>=500
Operating Temperature Range				-20 °C to + 200 °C	-20 °C to + 200 °C
Colour				Black	Black



Golestan Street. No 55.
Parandak Industrial
Town: Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

Sprayable Open Gear Grease with Graphite

Description:

PX3-301 is operating lubricant for open gear drives. This Grease is manufactured based on high viscosity mineral oil and Calcium Sulfonate Complex thickener fortified with high performance additives and colloidal graphite. Comparing to conventional Aluminium Complex open gear greases, PX3-301 provides much higher thermal and oxidation stability, lower wear rate, higher film strength and excellent corrosion protection. Despite its adhesiveness, PX3-301 is easily sprayable. PX3-301 is free of asphalt, heavy metals and solvents.

Performance & Features:

- Excellent high temperature performance up to 180 °C
- High adhesiveness and water resistant
- Excellent corrosion protection
- Prevents wear, pitting and scuffing
- Very high load carrying capacity
- Sprayable

Typical Applications:

- Rotary kilns
- Ball mill
- Wire rope
- Chains

Properties:

Specifications	Methods	PX3-301-500	PX3-301-1100	PX3-301-1500	PX3-301-2500
Base oil type		Mineral oil	Mineral oil	Mineral oil	Mineral oil
Base oil viscosity @ 40 °C, cSt	ASTM D 445	500	1100	1500	2500
Thickener type		Calcium Sulfonate Complex	Calcium Sulfonate Complex	Calcium Sulfonate Complex	Calcium Sulfonate Complex
NLGI Consistency		0-00	0-00	0-00	0-00
Dropping Point	ASTM D 2265	>250 °C	>250 °C	>250 °C	>250 °C
4 Ball Weld Load, Kg	ASTM D 2596	≥800	≥800	≥800	≥800
4 Ball Wear Test, mm	ASTM 2266	< 0.55	< 0.55	< 0.55	< 0.55
FZG Scuffing Load Stage	DIN 51354	>12	>12	>12	>12
Operating Temperature Range		-10 to + 180°C	-10 to + 180°C	0 to + 180°C	+5 to + 180°C
Colour	Visual	Black	Black	Black	Black



Running-in Open Gear Grease with Graphite

Description:

PX3-301 RN is a sprayable running-in/lapping lubricant for open gear drives. This Grease is manufactured based on high viscosity mineral oil and Lithium soap thickener fortified with high performance additives and colloidal graphite. This semi-liquid lubricant provokes controlled wear at zones that are under heavy load, through chemical reactions between the lubricant and the metal surface. This process results in flattening of asperities and increase in contact surface area. PX3-301 RN is free of asphalt, heavy metals and solvents.

Performance & Features:

- Easily sprayable
- Reduces surface roughness to a minimum
- Increase in contact surface area
- Extends lifetime of the gears
- Good adhesiveness
- Equivalent to CEPLATTYN RN

Typical Applications:

- Rotary kilns
- Ball mill

Properties:

Specifications	Methods	PX3-301-RN
Base oil type		Mineral oil
Base oil viscosity @ 40 °C, cSt	ASTM D 445	500
Thickener type		Lithium Soap
NLGI Consistency		00
Dropping Point	ASTM D 2265	>150 °C
4 Ball Weld Load, Kgf	ASTM D 2596	≥500
FZG Scuffing Load Stage	DIN 51354	>12
Operating Temperature Range		-10 to + 140°C
Colour	Visual	Black



Wire Rope Grease with Graphite

Description:

PX3-302 is a wire rope grease based on high viscosity mineral oil and calcium sulfonate complex thickener, fortified with high performance additives and colloidal **Graphite**. This grease has excellent adhesiveness and it is extremely water resistant. PX3-302 effectively protects the metal surface from wear and corrosion even in wet environments. PX3-302 is available in different consistencies depending on mode of application. This grease is free from any solvent, asphalt and heavy metals.

Performance & Features:

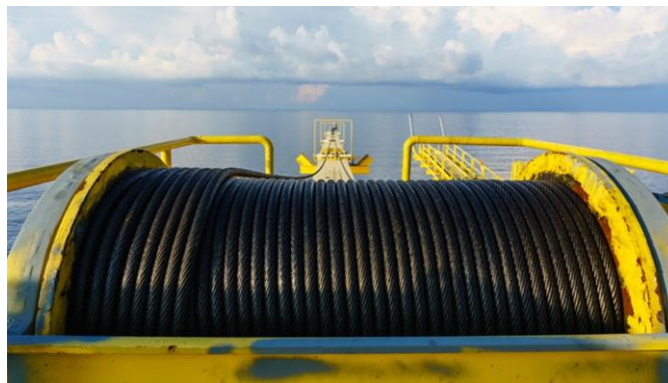
- Excellent high temperature performance up to 180 °C
- High adhesiveness
- Extremely water resistant
- Excellent wear and corrosion protection
- Very high load carrying capacity
- Good pumpability

Typical Applications:

- Wire rope dressing
- Port and offshore fields
- Building machine industry
- Wind energy plants

Properties:

Specifications	Methods	PX3-302/00	PX3-302/0	PX3-302/1	PX3-302/2
Base oil type		Mineral oil	Mineral oil	Mineral oil	Mineral oil
Base oil viscosity @ 40 °C, cSt	ASTM D 445	500	500	500	500
Thickener type		Calcium Sulfonate Complex	Calcium Sulfonate Complex	Calcium Sulfonate Complex	Calcium Sulfonate Complex
NLGI Consistency		00	0	1	2
Dropping Point	ASTM D 2265	>250 °C	>250 °C	>250 °C	>250 °C
4 Ball Weld Load, Kgf	ASTM D 2596	≥500	≥500	≥500	≥500
Operating Temperature Range		-20 to + 130 °C	-20 to + 130 °C	-20 to + 150 °C	-20 to + 150 °C
Colour	Visual	Black	Black	Black	Black



Biodegradable Wire Rope Grease

Description:

PX3-303 is a biodegradable wire rope grease based on high viscosity vegetable oil and Bentonite clay thickener, fortified with high performance additives and solid lubricants. This grease has excellent adhesiveness and it is extremely water resistant. PX3-303 effectively protects the metal surface from wear and corrosion even in wet environments. PX3-303 is available in different consistencies depending on mode of application. This grease is free from any solvent, asphalt and heavy metals.

Performance & Features:

- Good high temperature performance up to 150 °C
- Biodegradable
- High adhesiveness
- Extremely water resistant
- Excellent wear and corrosion protection
- Very high load carrying capacity
- Good pumpability

Typical Applications:

- Wire rope dressing
- Port and offshore fields
- Building machine industry
- Wind energy plants

Properties:

Specifications	Methods	PX3-303/00	PX3-303/0	PX3-303/1	PX3-303/2
Base oil type		Vegetable oil	Vegetable oil	Vegetable oil	Vegetable oil
Base oil viscosity @ 40 °C, cSt	ASTM D 445	500	500	500	500
Thickener type		Inorganic	Inorganic	Inorganic	Inorganic
NLGI Consistency		00	0	1	2
Dropping Point	ASTM D 2265	>250 °C	>250 °C	>250 °C	>250 °C
4 Ball Weld Load, Kgf	ASTM D 2596	≥300	≥300	≥300	≥300
Operating Temperature Range		-20 to + 130 °C	-20 to + 130 °C	-20 to + 150 °C	-20 to + 150 °C
Colour	Visual	Cream	Cream	Cream	Cream



Biodegradable Wire Rope Grease

Description:

PX3-304 is a biodegradable wire rope grease based on vegetable oil and Bentonite clay thickener, fortified with high performance additives and solid lubricants. This grease has good adhesiveness and it is extremely water resistant. PX3-304 effectively protects the metal surface from wear and corrosion even in wet environments. PX3-304 is available in different consistencies depending on mode of application. This grease is free from any solvent, asphalt and heavy metals.

Performance & Features:

- Good high temperature performance up to 150 °C
- Biodegradable
- Good adhesiveness
- Extremely water resistant
- Excellent wear and corrosion protection
- Very high load carrying capacity
- Good pumpability

Typical Applications:

- Wire rope dressing
- Port and offshore fields
- Building machine industry
- Wind energy plants

Properties:

Specifications	Methods	PX3-304/00	PX3-304/0	PX3-304/1	PX3-304/2
Base oil type		Vegetable oil	Vegetable oil	Vegetable oil	Vegetable oil
Base oil viscosity @ 40 °C, cSt	ASTM D 445	170	170	170	170
Thickener type		Inorganic	Inorganic	Inorganic	Inorganic
NLGI Consistency		00	0	1	2
Dropping Point	ASTM D 2265	>250 °C	>250 °C	>250 °C	>250 °C
4 Ball Weld Load, Kgf	ASTM D 2596	≥300	≥300	≥300	≥300
Operating Temperature Range		-20 to + 130 °C	-20 to + 130 °C	-20 to + 150 °C	-20 to + 150 °C
Colour	Visual	Beige	Beige	Beige	Beige



Extremely High Viscosity Open Gear Fluid Lubricant

Description:

PX3-305 is operating lubricant for open gear drives. This Lubricant is manufactured based on Extremely high viscosity semi-synthetic oil fortified with high performance additives. This lubricant has very high load carrying capacity and it effectively protects the gears from wear, pitting and scuffing. PX3-305 provides excellent adhesion and extends relubrication intervals. PX3-305 is free of asphalt, heavy metals, solvents and solid lubricants.

Performance & Features:

- Good high temperature performance up to 120°C
- High adhesiveness and water resistant
- Effectively prevents wear, pitting and scuffing
- Very high load carrying capacity
- Transparent
- Sprayable

Typical Applications:

- Rotary kilns
- Ball mill
- Wire rope

Equivalent to LUBRILOG Gear Fluid 550 & 1000

Properties:

Specifications	Methods	PX3-305/550	PX3-305/1000
Base oil type		Semi-Synthetic	Semi-Synthetic
Viscosity @ 100 °C, cSt	ASTM D 445	550	1000
Viscosity @ 40 °C, cSt	ASTM D 445	17000	25000
4 Ball Weld Load, Kgf	ASTM D 2596	≥800	≥800
4 Ball Wear Test, mm	ASTM 2266	< 0.55	< 0.55
FZG Scuffing Load Stage	DIN 51354	>12	>12
Flash Point, °C	ISO 2592	≥ 200 °C	≥ 200 °C
Operating Temperature Range		0 to + 120 °C	0 to + 120 °C
Colour	Visual	Brown	Brown



High Viscosity Open Gear Fluid Lubricant

Description:

PX3-306 is operating lubricant for open gear drives. This Lubricant is manufactured based on high viscosity semi-synthetic oil fortified with high performance additives. This lubricant has very high load carrying capacity and it effectively protect the gears from wear, pitting and scuffing. PX3-306 is highly adhesive and water resistant. PX3-306 is free of asphalt, heavy metals and solvents.

Performance & Features:

- Good high temperature performance up to 120°C
- High adhesiveness and water resistant
- Effectively prevents wear, pitting and scuffing
- Very high load carrying capacity
- Transparent
- Sprayable
- Equivalent to Whitmore Envirolube XE Extreme

Typical Applications:

- Rotary kilns
- Ball mill
- Wire rope

Properties:

Specifications	Methods	PX3-306 M	PX3-306 H
Base oil type		Semi-Synthetic	Semi-Synthetic
Viscosity @ 40 °C, cSt	ASTM D 445	1100	4500
4 Ball Weld Load, Kgf	ASTM D 2596	≥800	≥800
4 Ball Wear Test, mm	ASTM 2266	< 0.55	< 0.55
FZG Scuffing Load Stage	DIN 51354	>12	>12
Flash Point, °C	ISO 2592	≥ 200 °C	≥ 200 °C
Operating Temperature Range		-15 to + 120 °C	-7 to + 120 °C



Golestan Street. No 55.
Parandak Industrial
Town. Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

Jacking Grease

Description:

PX3-307 is a biodegradable grease based on vegetable oil and Bentonite clay thickener, fortified with high performance additives and solid lubricants. PX3-307 has good adhesiveness and it is extremely water resistant. This grease provides excellent wear and corrosion protection even in wet environments. PX3-307 is free of asphalt, heavy metals and solvents.

Performance & Features:

- Good high temperature performance up to 150°C
- High adhesiveness and water resistant
- Effectively prevents wear, pitting and scuffing
- Very high load carrying capacity
- Biodegradable
- Equivalent to Jet-Lube Jacking Grease ECF

Typical Applications:

PX3-307 is designed to lubricate a wide array of heavily loaded gear applications. It can also be used on slides, jacking systems, cantilever type rigs and assemblies, nuts, bolts, and a wide range of other applications making Jacking Grease a nearly universal product.

Properties:

Specifications	Methods	Conditions	Unit	Value
Base oil type				Vegetable oil
Thickener type				Inorganic
Dropping point	ASTM D566		°C	> 250
NLGI Consistency			NLGI- class	1-2
Worked penetration	ASTM D217	60 Dh	mm/10	275 – 300
4 Ball Weld Load	ASTM D 2596		Kgf	800
Operating Temperature Range				-20 °C to + 150 °C
Colour				Beige



Food Grade Calcium Complex Grease

Multipurpose, High Performance, High Temperature

Description:

PX3-701 is a multipurpose, food grade **Calcium Complex** grease based on white mineral oil. This Grease is fortified with food grade anti-wear, anti-corrosion and anti-oxidation additives. **PX3-701** is suitable for applications where incidental food contact is possible.

Performance & Features:

- Formulated based on **NSF H1** requirements.
- Excellent high temperature performance.
- Excellent mechanical stability.
- Wear resistant.
- Water resistant.
- High oxidation stability.
- Good corrosion protection.

Typical Applications:

- Food processing equipment.
- Grease lubrication of rolling and friction bearings, joints, linear drives and chains.
- Anywhere lubrication is needed where it may come in contact with food.

Properties:

Specifications	Methods	Unit	PX3-701/1	PX3-701/2	PX3-701/3
Base oil type			White oil	White oil	White oil
Base oil viscosity @ 40 °C	ASTM D 445	cSt (mm ² /s)	70	70	70
Thickener type			Calcium Complex	Calcium Complex	Calcium Complex
Dropping point	ASTM D566	°C	>260	>260	>260
NLGI Consistency		NLGI- class	1	2	3
Worked penetration	ASTM D217	mm/10	310 – 340	265 – 295	220 – 250
Operating Temperature Range			-20 °C to + 150 °C	-20 °C to + 150 °C	-20 °C to + 150 °C
Colour			Light Cream	Light Cream	Light Cream



Golestan Street. No 55.
Parandak Industrial
Town. Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

Food Grade Silicone Grease

Description:

PX3-702 is a Silicone oil based grease formulated to meet the food grade grease specifications. This Grease is designed for lubricating and sealing of rubber and plastic parts, and as an insulator for valves and Electrical contacts. It is also suitable for applications where incidental food contact is possible.

Performance & Features:

- Formulated based on **NSF H1** requirements.
- Wide temperature range -40_+200 °C
- Excellent mechanical stability
- Odourless, tasteless and non-toxic
- Excellent rubber and plastic compatibility
- Does not dry out
- Water resistant

Typical Applications:

- Food processing equipment
- Waterproofing and lubrication of O-rings and other rubber and plastic parts
- Lubrication and sealing of valves
- Electrical insulator
- Moisture and corrosion inhibitor

Properties:

Specifications	Methods	Unit	PX3-702/1	PX3-702/2	PX3-702/3
Base oil type			Silicone oil	Silicone oil	Silicone oil
Thickener type			Inorganic	Inorganic	Inorganic
Dropping point	ASTM D566	°C	>260	>260	>260
NLGI Consistency		NLGI- class	1	2	3
Worked penetration	ASTM D217	mm/10	310 – 340	265 – 295	220 – 250
Operating Temperature Range			-40 °C to + 200 °C	-40 °C to + 200 °C	-40 °C to + 200 °C
Colour			Translucent White	Translucent White	Translucent White



Food Grade Aluminium Complex Grease

Multipurpose, High Performance

Description:

PX3-703 is a multipurpose, food grade grease based on white mineral oil and Aluminum Complex thickener. This Grease is fortified with food grade anti-wear, anti-corrosion and anti-oxidation additives. **PX3-703** is suitable for moderately loaded applications where incidental food contact is possible.

Performance & Features:

- Formulated based on **NSF H1** requirements.
- Excellent high temperature performance.
- Excellent mechanical stability.
- Excellent pumpability
- Wear resistant.
- Water resistant.
- High oxidation stability.
- Good corrosion protection.

Typical Applications:

- Food processing equipment.
- Grease lubrication of rolling and friction bearings, joints, linear drives and chains.
- Anywhere lubrication is needed where it may come in contact with food.

Properties:

Specifications	Methods	Unit	PX3-703/1	PX3-703/2	PX3-703/3
Base oil type			White oil	White oil	White oil
Base oil viscosity @ 40 °C	ASTM D 445	cSt (mm ² /s)	70	70	70
Thickener type			Aluminium Complex	Aluminium Complex	Aluminium Complex
Dropping point	ASTM D566	°C	>250	>250	>250
NLGI Consistency		NLGI- class	1	2	3
Worked penetration	ASTM D217	mm/10	310 – 340	265 – 295	220 – 250
4 Ball Weld Load	ASTM D 2596	Kgf	250 min	250 min	250 min
Operating Temperature Range			-20 °C to + 130 °C	-20 °C to + 130 °C	-20 °C to + 130 °C
Colour			Light Cream	Light Cream	Light Cream



Golestan Street. No 55.
Parandak Industrial
Town: Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

Food Grade Aluminium Complex Grease

Multipurpose, Extreme pressure, High Temperature

Description:

PX3-704 is a multipurpose, food grade grease based on white mineral oil and Aluminium Complex thickener. This Grease is fortified with food grade extreme pressure, anti-wear, anti-corrosion and anti-oxidation additives. **PX3-704** is suitable for moderate to heavily loaded applications where incidental food contact is possible.

Performance & Features:

- Formulated based on **NSF H1** requirements.
- Excellent high temperature performance.
- Excellent mechanical stability.
- Excellent pumpability
- Wear resistant.
- Water resistant.
- High oxidation stability.
- Good corrosion protection.

Typical Applications:

- Food processing equipment.
- Grease lubrication of rolling and friction bearings, joints, linear drives and chains.
- Anywhere lubrication is needed where it may come in contact with food.

Properties:

Specifications	Methods	Unit	PX3-704/1	PX3-704/2	PX3-704/3
Base oil type			White oil	White oil	White oil
Base oil viscosity @ 40 °C	ASTM D 445	cSt (mm ² /s)	220	220	220
Thickener type			Aluminium Complex	Aluminium Complex	Aluminium Complex
Dropping point	ASTM D566	°C	>250	>250	>250
NLGI Consistency		NLGI- class	1	2	3
Worked penetration	ASTM D217	mm/10	310 – 340	265 – 295	220 – 250
4 Ball Weld Load	ASTM D 2596	Kgf	250 min	250 min	250 min
Operating Temperature Range			-20 °C to + 150 °C	-20 °C to + 150 °C	-20 °C to + 150 °C
Colour			Light Cream	Light Cream	Light Cream



Food Grade Calcium Complex Grease

Multipurpose, Extreme Pressure, High Temperature

Description:

PX3-706 is a multipurpose, food grade grease based on white mineral oil and Calcium Complex thickener. This Grease is fortified with food grade Extreme Pressure, anti-wear, anti-corrosion and anti-oxidation additives. **PX3-706** is suitable for heavily loaded applications where incidental food contact is possible.

Performance & Features:

- Formulated based on **NSF H1** requirements.
- Excellent high temperature performance.
- Excellent mechanical stability.
- High load carrying capacity
- Wear resistant.
- Water resistant.
- High oxidation stability.
- Good corrosion protection.

Typical Applications:

- Food processing equipment.
- Grease lubrication of rolling and friction bearings, joints, linear drives and chains.
- Anywhere lubrication is needed where it may come in contact with food.

Properties:

Specifications	Methods	Unit	PX3-706/1	PX3-706/2	PX3-706/3
Base oil type			White oil	White oil	White oil
Base oil viscosity @ 40 °C	ASTM D 445	cSt (mm ² /s)	220	220	220
Thickener type			Calcium Complex	Calcium Complex	Calcium Complex
Dropping point	ASTM D566	°C	>260	>260	>260
NLGI Consistency		NLGI- class	1	2	3
Worked penetration	ASTM D217	mm/10	310 – 340	265 – 295	220 – 250
4 Ball Weld Load	ASTM D 2596	Kgf	250 min	250 min	250 min
Operating Temperature Range			-20 °C to + 150 °C (Peak 180 °C)	-20 °C to + 150 °C (Peak 180 °C)	-20 °C to + 150 °C (Peak 180 °C)
Colour			Light Cream	Light Cream	Light Cream



Golestan Street. No 55.
Parandak Industrial
Town. Iran



+98 912 5343 599
+98 919 4365 681
+98 86 4528 3020



www.px3lube.com
info@px3lube.com

Cotton Picker Spindle Grease

Description:

PX3-LS 004 is a semi-fluid grease based on high quality mineral oil and Lithium soap thickener fortified with anti-wear, anti-corrosion and anti-oxidation additives.

Performance & Features:

- Excellent wear protection
- Excellent corrosion resistance
- Excellent anti-oxidation performance
- Excellent low temperature pumpability
- Good water resistance
- Leakage resistant

Typical Applications:

- Cotton picker spindle assembly
- Drum drive gears
- Cam truck

Properties:

Specifications	Methods	Conditions	Unit	PX3-LS 004
Base oil type				Mineral oil
Base oil viscosity @ 100 °C	ASTM D 445		cSt (mm ² /s)	4.7
Thickener type				Lithium Soap
Dropping point	ASTM D566		°C	>150
NLGI Consistency			NLGI- class	00
Worked penetration	ASTM D217	60 Dh	mm/10	400 – 430
Operating Temperature Range				-20 °C to + 115 °C
Color				Green



Tail Seal Grease

Description:

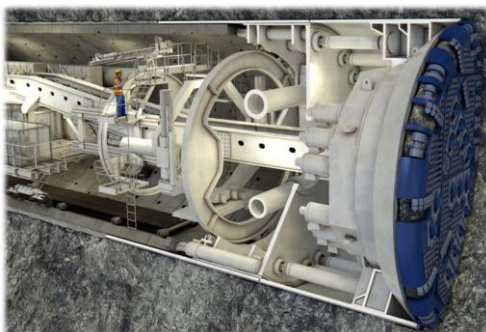
PX3-T.S.G is a driving grade tail sealing grease for shielded tunnel boring machine. This Grease is extremely water resistant and can effectively seal the gap between the shield and the concrete segments against ingress of high pressure water, soil and dust. **PX3-T.S.G** has excellent adhesiveness and good pumping properties and it does not clog the pumping systems. This sealant is manufactured using **biodegradable** base oil.

Performance & Features:

- Excellent Pumpability
- Extremely water resistant
- Excellent Lubricating properties
- **Biodegradable** and non-toxic
- Resists high water and ground pressure
- Excellent adhesiveness
- Lower consumption

Properties:

Specifications	Methods	Conditions	Unit	PX3-H.S.G
Base oil type				Vegetable oil
Dropping point	ASTM D566		°C	None
NLGI Consistency			NLGI- class	2-3
Worked penetration	ASTM D217	60 Dh	mm/10	240 – 260
Density		at 20°C	[kg/m3]	1200 ± 50
Water Washout	ASTM D1264		Mass %	<5
Flash Point	ASTM D 92		°C	>280
Minimum Service Temperature				+10 °C
Storage Temperature				+5°C - +40°C
Colour				Light Brown



Main Bearing Seal Grease

Description:

PX3-H.S.G is a main bearing sealing grease for shielded tunnel boring machine. This Grease is extremely water resistant and can effectively seal and protect the main bearing against ingress of water, soil and dust.

PX3-H.S.G has excellent adhesiveness and excellent pumping properties and it does not clog the pumping systems. This sealant is manufactured using **biodegradable** base oil.

Performance & Features:

- Excellent Pumpability
- Extremely water resistant
- Excellent lubricating properties
- Resists against high water pressure
- **Biodegradable** and non-toxic
- Resists high water and ground pressure
- Excellent adhesiveness
- Lower consumption

Properties:

Specifications	Methods	Conditions	Unit	PX3-H.S.G
Base oil type				Vegetable oil
Dropping point	ASTM D566		°C	None
NLGI Consistency			NLGI- class	2
Worked penetration	ASTM D217	60 Dh	mm/10	250 – 280
Density		at 20°C	[kg/m ³]	1150 ± 50
Water Washout	ASTM D1264		Mass %	<5
Flash Point	ASTM D 92		°C	>280
Minimum Service Temperature				+10 °C
Storage Temperature				+5°C - +40°C
Colour				Black

