



GREASES

CONTENTS

ABOUT THE COMPANY	4
COMPOSITION OF GREASES	6
GREASES PRODUCTION PROCESS	7
CLASSIFICATION OF GREASES	8
GREASES RANGE STRUCTURE	10
RANGE OF GREASES	12
Universal greases	
Gazpromneft Grease Synth LX EP 2	12
Gazpromneft Premium Grease EP 00, 0, 1, 2	13
Gazpromneft Grease LX EP 1, 2	14
Gazpromneft Grease LTS 1, 2	15
Gazpromneft Grease L EP 00, 0, 1, 2, 3	16
Gazpromneft Grease EP 2, 3	17
Gazpromneft Grease L 2	18
Greases for extreme loads	
Gazpromneft Grease LTS Moly EP 2, EP 1 All Seasons	19
Gazpromneft Grease L Moly EP 2	20
Gazpromneft Grease Premium HD	21
Special greases	
Gazpromneft Grease HighSpeed EP 3	22
Gazpromneft Grease Nord Moly	23
Gazpromneft Steelgrease CS 1, 2	24
Gazpromneft Grease PM CS 1.5	25
Gazpromneft Offroad Grease CS 2	26
Gazpromneft Grease Reductor LTS EP 00	27
Typical physico-chemical characteristics	28
Lubricants of GOST standard	
Lithol-24 / Gazpromneft Lithol	30
CV-joint-4M / Gazpromneft CV-joint	30
Typical physico-chemical characteristics	31
Important factors when selecting grease	32
Greases for household use	
Gazpromneft Universal Grease	33
Typical physico-chemical characteristics	34
SPECIAL SUPPLEMENT	35
TECHNICAL SERVICES	36



GAZPROMNEFT — LUBRICANTS LTD. —
A SUBSIDIARY OF GAZPROM NEFT PJSC, SPECIALIZING
IN THE PRODUCTION AND SALE OF OILS, LUBRICANTS
AND TECHNICAL FLUIDS

4 SALES OFFICES IN RUSSIA,
BELARUS, AND KAZAKHSTAN

№ 14 IN THE WORLD



№ 1
IN RUSSIA*

4 PRODUCTION
SITES

74 COUNTRIES —
GEOGRAPHY
OF SUPPLIES

590 THOUSAND TONS
OF OILS, GREASES,
AND TECHNICAL FLUIDS
PER YEAR

BUSINESS

- Production of synthetic and mineral base oils (API groups I, II, III, and V)
- Development and production of additive packages
- International network of G-Energy Service service stations
- The company's management system and production assets comply with international standards



ISO 9001



ISO 45001



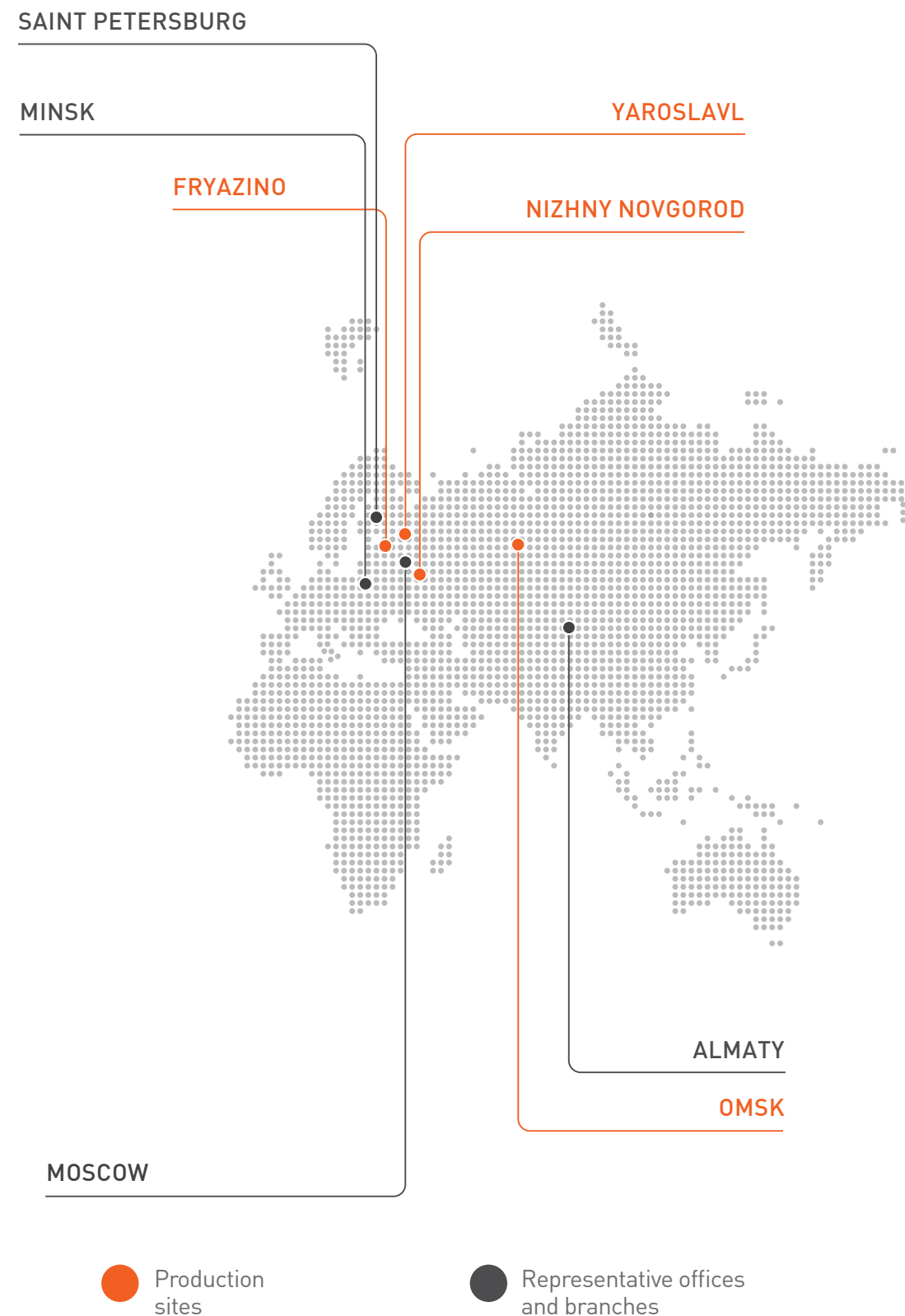
ISO 14001

* Based on sales of packaged products in 2024.

** Based on data from 2024.

SCALE

- Over 150 distributors
- Over 1,000 products
- No. 1 in the Russian marine oil market**



Gazpromneft-Lubricants is a reliable partner offering comprehensive solutions for various industries.

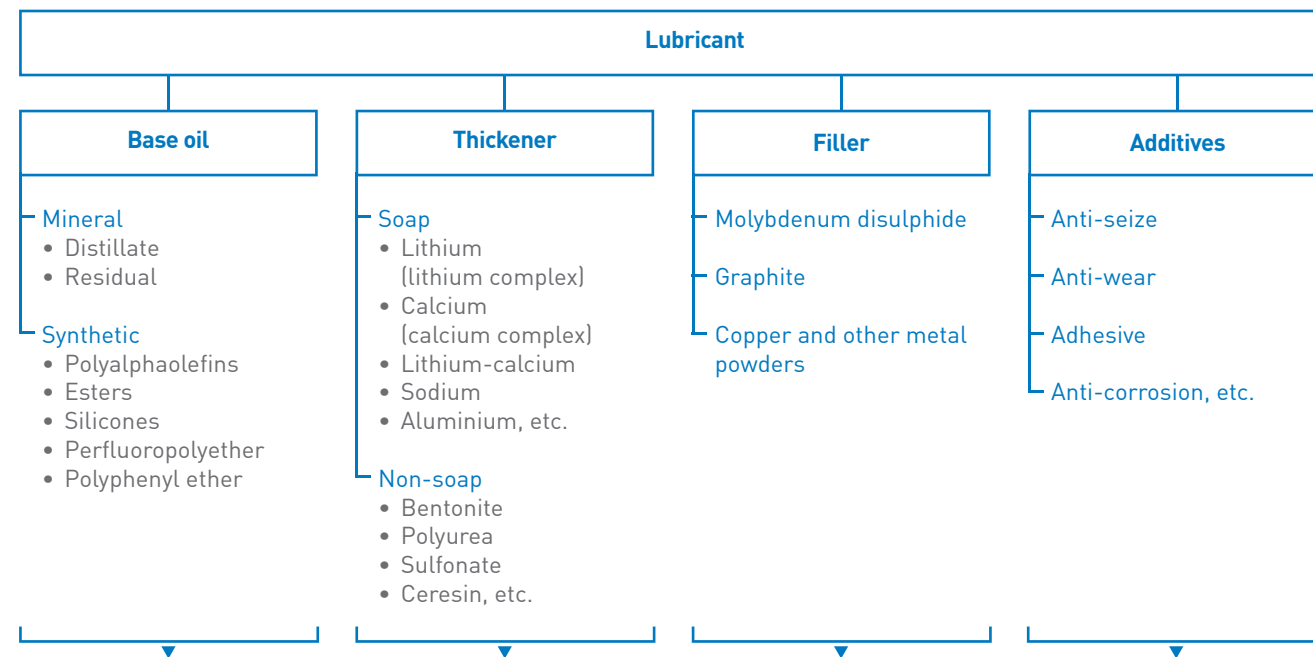
COMPOSITION OF GREASES

Greases are a type of lubricant widely used in industry and have specific advantages:

- retention on moving surfaces under gravity and centrifugal forces;
- retention in the friction unit and separation of rubbing surfaces at high contact pressures;
- ensuring reliable sealing of the assembly.

Due to the above-mentioned advantages greases are used in such units as rolling and friction bearings, ball and sleeve bearings, joints, guides, gears, as well as in centralized lubrication systems of industrial equipment and machinery.

Unlike oils, grease is a multi-component system.



Its type and viscosity determine the temperature range of use of the lubricant and its applicability in the bearing based on the speed coefficient.

Its nature and concentration determine the thickness of the lubricant, the drop point temperature, as well as such basic parameters as water resistance, mechanical stability, etc.

It is not used in all lubricants and serves mainly to impart special anti-wear and anti-seize properties and to counteract shock loads.

As in lubricating oils, it is used to provide improved performance properties.



To select the right grease, it is necessary to refer to the equipment manufacturer's requirements. If these are unknown, take into account the design features and operating conditions of the specific unit (load type, lubricant supply method, lubrication interval, temperature, rotation speed, exposure to moisture and contamination).

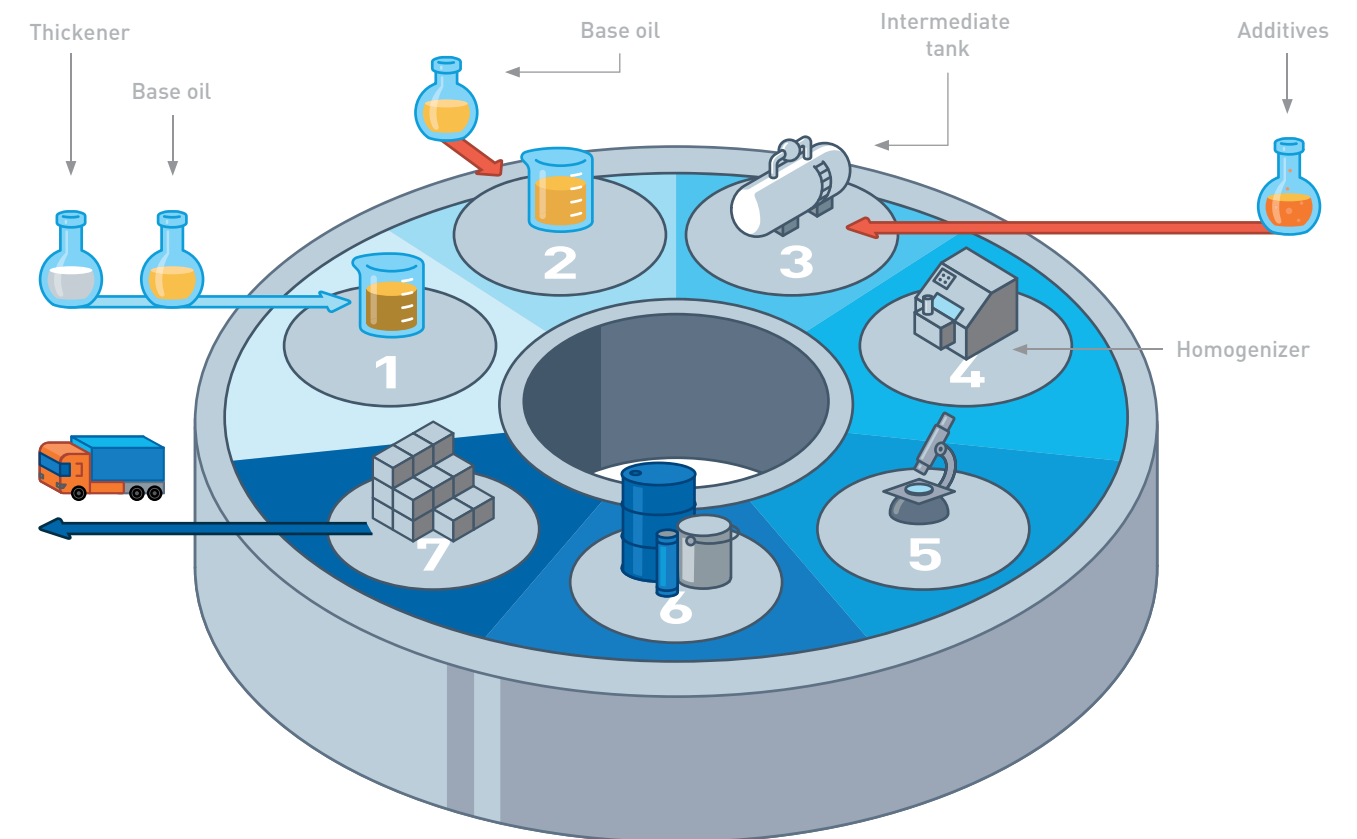
When replacing products, it is also necessary to assess the possibility of mixing with residues of previously used grease.

GREASES PRODUCTION PROCESS

1 Loading of basic components.

2 Formation of the lubricant structure.

3 Cooling, involvement of additives/fillers.



7 Warehousing and shipping.

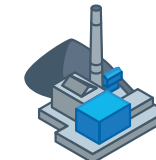
5 Quality control.

4 Mechanical processing (homogenisation, grinding, deaeration).

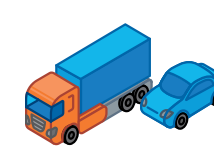
6 Packaging.



Railway



Mining



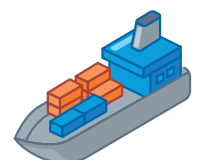
Automotive



Energy



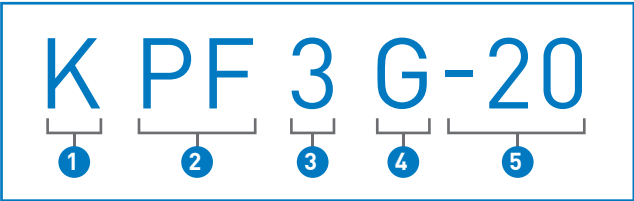
Aviation



Marine and others

CLASSIFICATION OF GREASES

The main classification of greases, as well as industrial oils, is the German DIN standard. Classification according to DIN 51502 provides information on composition, area of application, density, conditions of use and lower temperature limits.



1 Purpose of grease

K	For rolling and plain bearings, sliding planes according to DIN 51825
G	For closed gears according to DIN 51826
OG	For open gears
M	For bearing/seal pair NLGI grade

- 1. Purpose of grease.
- 2. Composition (base oil, additives, etc.).
- 3. NLGI grade.
- 4. Conditions of use.
- 5. Lower temperature range of application.

2 Composition (base oil, additives, etc.)

P	EP additive
F	Solid filler
E	Polyester oil
FK	Perfluoric fluid
HC	Synthetic hydrocarbons
PH	Phosphoric acid ester oil
PG	Polyglycol oil
SI	Silicone oil
X	Other oils

3 NLGI grade

NLGI grade	Penetration at 25 °C	Consistency	Area of application
000	445–475	Very soft - similar to viscous oil	Closed gears/centralised lubrication systems
00	400–430		
0	355–385		
1	310–340	Soft	Closed gears/friction bearings/rolling bearings/centralised lubrication systems
2	265–295	Soft	Plain bearings/rolling bearings/linear guidance systems/centralised lubrication systems
3	220–250	Semi-hard	Plain bearings/rolling bearings/rolling bearings/centralised lubrication systems
4	175–205	Hard	Rolling bearings/water pump seals
5	130–160	Very hard	Open gears/water pump seals
6	85–115		

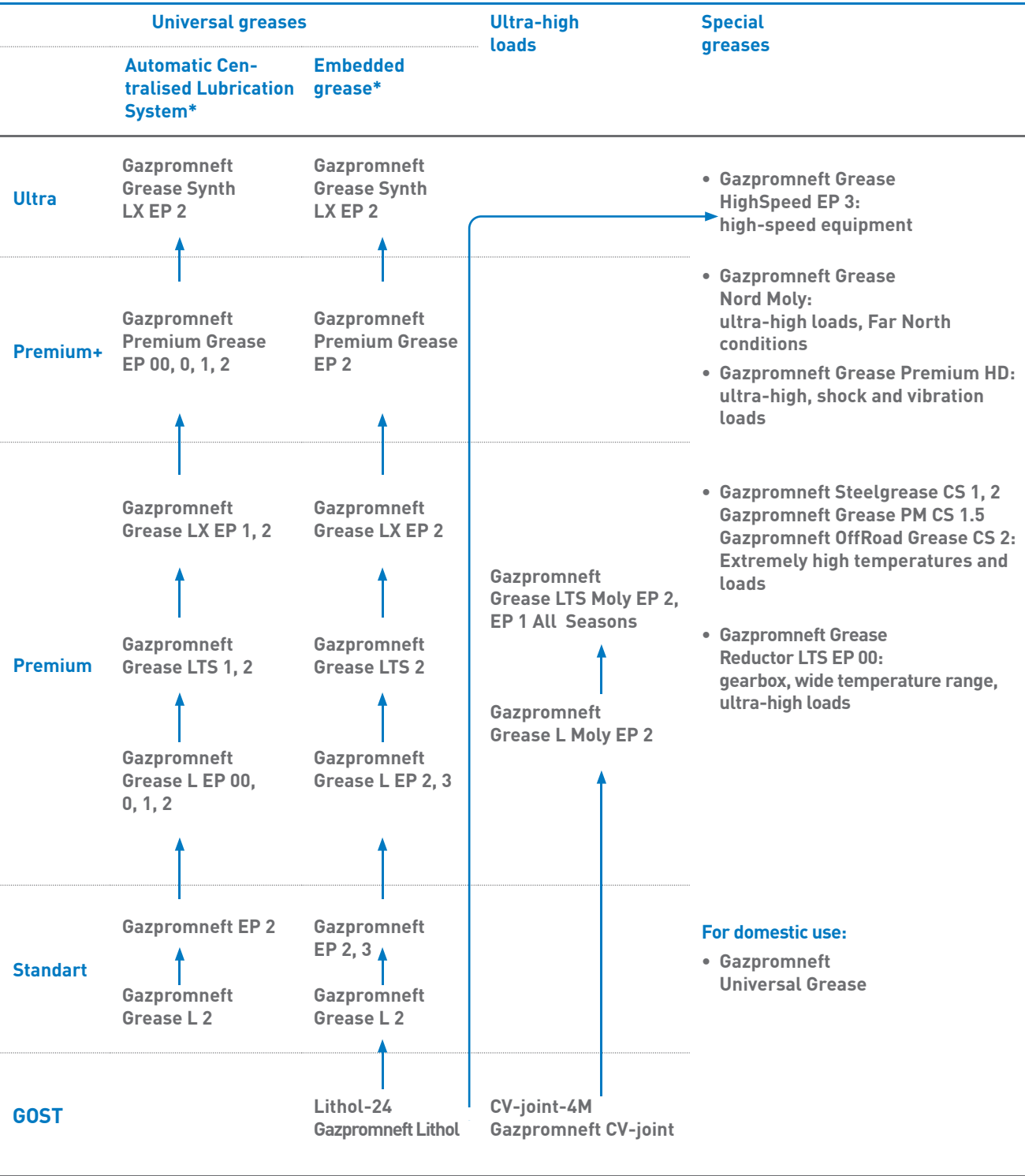
4 Conditions of use

Designation	Upper operating temperature limit, °C	Resistance to water washout at temperature °C according to DIN 51807
C	60	0 at 40 °C or 1 at 40 °C
D		2 at 40 °C or 3 at 40 °C
E	80	0 at 40 °C or 1 at 40 °C
F		2 at 40 °C or 3 at 40 °C
G	100	0 at 90 °C or 1 at 90 °C
H		2 at 90 °C or 3 at 90 °C
K	120	0 at 90 °C or 1 at 90 °C
M		2 at 90 °C or 3 at 90 °C
N	140	No requirements
P	160	
R	180	
S	200	
T	220	
U	>220	

5 Lower temperature range of application

The minimum temperature at which the Grease reliably fulfils its function at the respective operating temperature is specified.

GREASES RANGE STRUCTURE



↑ It is possible to change to a grease of a higher level provided the same NLGI grade is selected.

* Depending on the consistency of the grease (NLGI class), greases can be used either in automatic centralised lubrication system or as an embedded grease. NLGI class 2 greases are universal and can be used both in automatic centralised lubrication system and as embedded greases.



TYPES OF PACKAGING



GAZPROMNEFT GREASE SYNTH LX EP 2

UNIVERSAL

 Wide temperature range



Gazpromneft Grease Synth LX EP 2 — specialised grease based on synthetic base oil (PAO) and lithium-complex thickener containing anti-wear additives (EP additives). It is intended for use in the Far North in centralised lubrication systems and as a lubricant for various equipment and machinery.

Colour:

Light beige

Temperature range:

-50 °C +150 °C

ADVANTAGES

 Synthetic base oil group IV (PAO)

 Wide temperature range of application. Improved low temperature properties

 Li-X Lithium complex thickener

 High load capacity

 Guaranteed corrosion protection in demanding environments

 EP Anti-seize additives

 Excellent wear protection under high load conditions

APPLICATION

- Various equipment and machinery operating at extremely low temperatures.
- Used for centralised lubrication systems and as a embedded lubricant.

PACKAGING OPTIONS

0.4 kg, 18 kg, 180 kg

GAZPROMNEFT PREMIUM GREASE EP 00, 0, 1, 2

UNIVERSAL

 Extremely loaded bearings

 Wide temperature range



Gazpromneft Premium Grease EP 00, 0, 1, 2 — universal greases based on semi-synthetic base oil and lithium complex thickener with content of anti-wear additives (EP additives). Intended for use in a wide range of industrial equipment and machinery with centralised lubrication systems and for use as embedded lubricants.

Colour:

Light brown

Temperature range:

-50 °C (for NLGI 00 and 0) +140 °C (for NLGI 00 and 0)
-40 °C +160 °C

ADVANTAGES

 Semi-synthetic base oil

 Wide temperature range of application

 Li-X Lithium complex thickener

 Excellent load capacity

 Guaranteed corrosion protection in demanding environments

 EP Anti-seize additives

 Excellent wear protection under high load conditions

APPLICATION

- Various equipment operating under medium to high load conditions.
- Used for centralised lubrication systems (NLGI 00, 0, 1, 2).
- Used as a embedding for rolling and friction bearings (NLGI 2).

PACKAGING OPTIONS

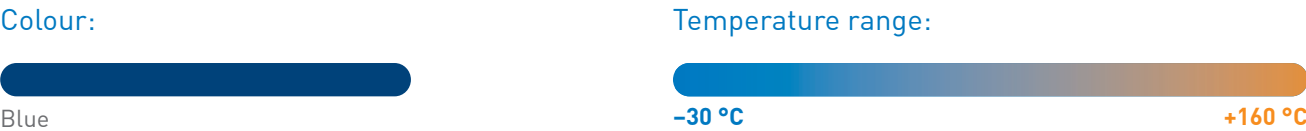
0.4 kg, 18 kg, 170 kg, 180 kg

GAZPROMNEFT GREASE LX EP 1, 2

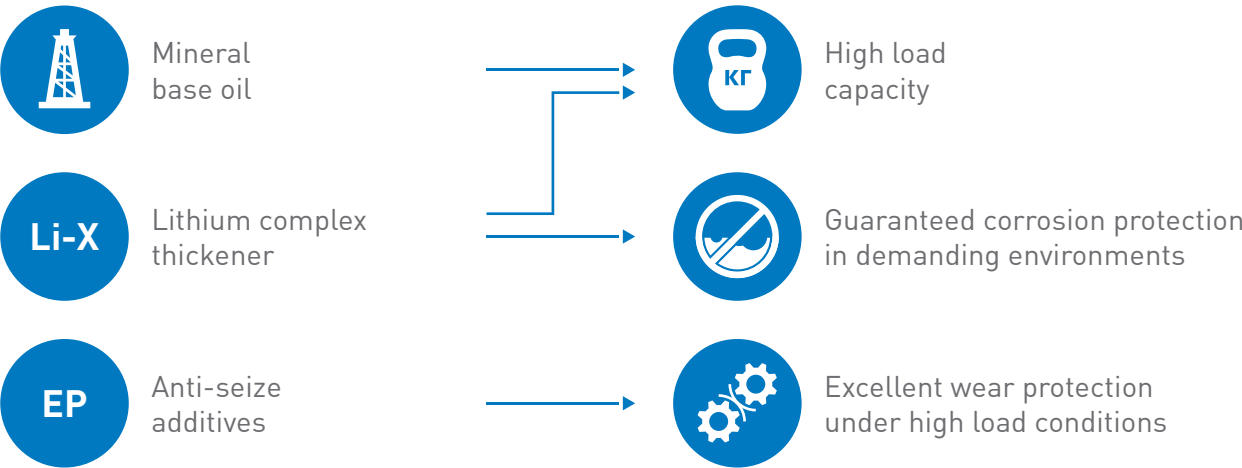
UNIVERSAL



Gazpromneft Grease LX EP 1, 2 — universal greases based on mineral base oil and lithium-complex thickener containing anti-wear additives (EP additives). Intended for use in a wide range of industrial equipment and machinery with centralised lubrication systems and as embedded lubricants.



ADVANTAGES



APPLICATION

- Various equipment operating under medium to high load conditions.
- Used for centralised lubrication systems (NLGI 1, 2).
- Suitable for use in rolling bearings, friction bearings, etc. (NLGI 2).

PACKAGING OPTIONS

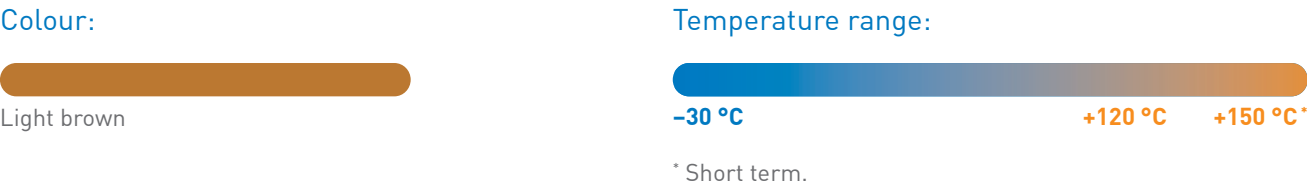
0.1 kg, 0.4 kg, 4 kg, 8 kg, 18 kg, 180 kg

GAZPROMNEFT GREASE LTS 1, 2

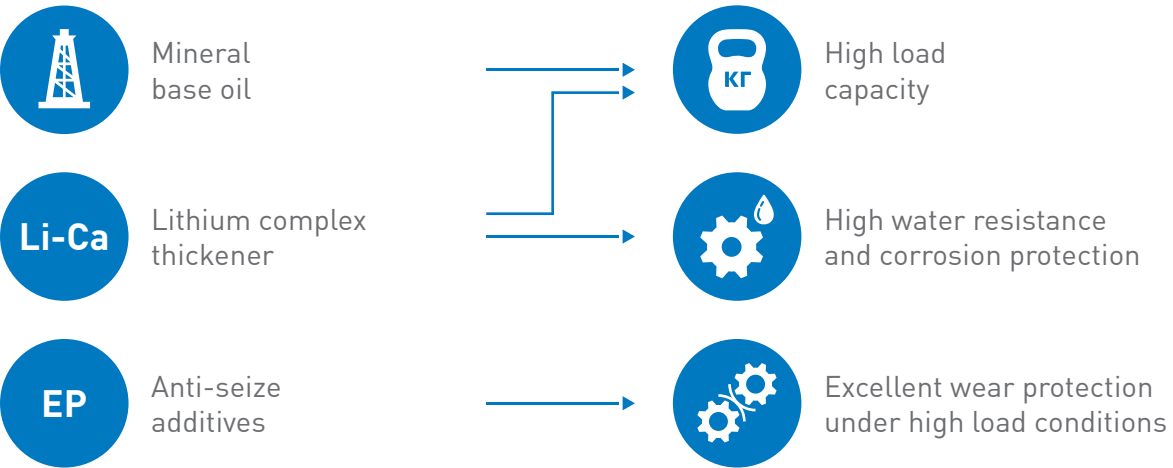
UNIVERSAL  High adhesion



Gazpromneft Grease LTS 1, 2 — universal greases based on mineral base oil and lithium-calcium thickener with content of anti-wear additives (EP additives) and high adhesion. They are intended for use in a wide range of industrial equipment and machinery with centralised lubrication systems and for use as embedded lubricants.



ADVANTAGES



APPLICATION

- Various equipment operating under high and ultra-high load conditions.
- Used for centralised lubrication systems (NLGI 1, 2).
- Suitable for use in rolling bearings, friction bearings, etc. (NLGI 2). (NLGI 2).

PACKAGING OPTIONS

0.1 kg, 0.4 kg, 4 kg, 8 kg, 18 kg, 180 kg

GAZPROMNEFT GREASE L EP 00, 0, 1, 2, 3

UNIVERSAL



Gazpromneft Grease L EP 00, 0, 1, 2, 3 — universal grease based on mineral base oil and lithium thickener with anti-wear additives (EP additives). Designed for use in a wide range of industrial equipment and machinery with centralized lubrication systems and as an embedded lubricant.

Colour:



Light brown

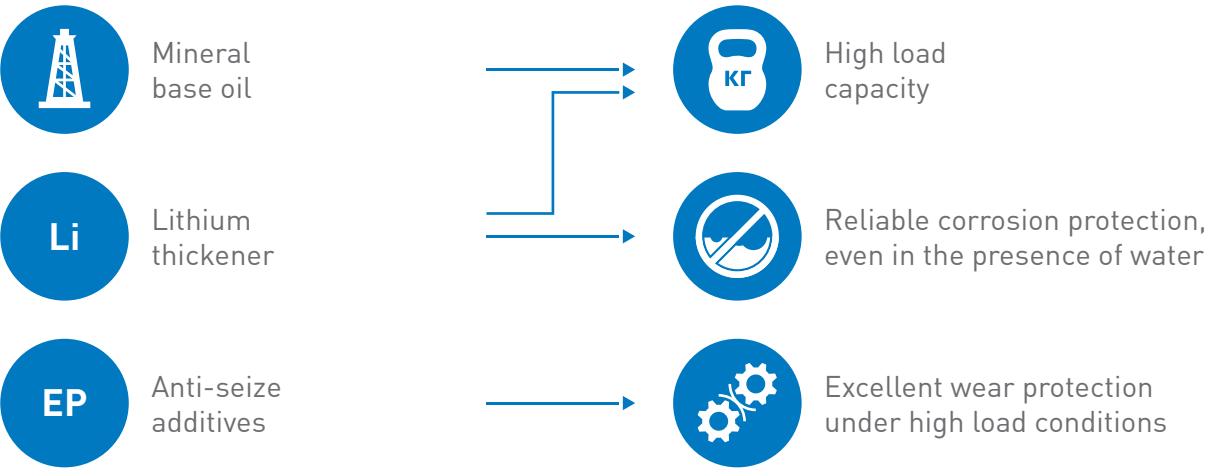
Temperature range:



-30 °C +120 °C +150 °C*

*Short term.

ADVANTAGES



APPLICATION

- Various equipment operating under medium to high load conditions.
- Suitable for centralised lubrication systems (NLGI 00, 0, 1, 2).
- Suitable for rolling bearings, friction bearings, etc. (NLGI 2, 3).

PACKAGING OPTIONS

0,1 kg, 0,15 kg, 0,3 kg, 0,4 kg, 0,8 kg, 18 kg, 180 kg.

GAZPROMNEFT GREASE EP 2, 3

UNIVERSAL



Gazpromneft Grease EP 2, 3 — universal greases based on mineral base oil and lithium thickener containing anti-wear additives (EP additives). Intended for use in a wide range of industrial equipment and machinery with centralised lubrication systems and as embedded lubricants.

Colour:



Light brown

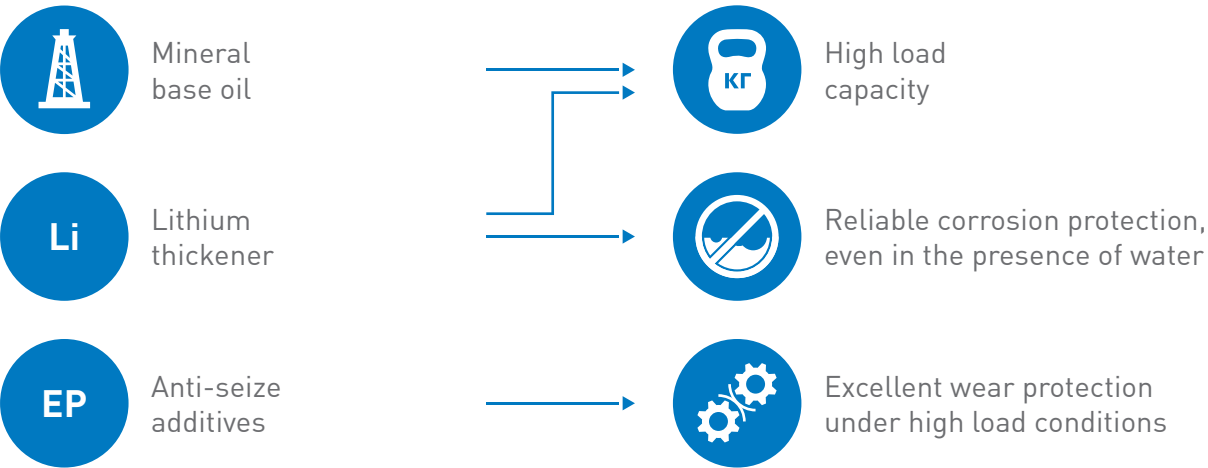
Temperature range:



-40 °C +130 °C +150 °C*

*Short term.

ADVANTAGES



APPLICATION

- Various equipment operating under medium to high load conditions.
- Suitable for centralised lubrication systems (NLGI 2).
- Suitable for rolling bearings, friction bearings etc. (NLGI 2, 3)

PACKAGING OPTIONS

0.8 kg, 18 kg, 45 kg, 170 kg, 180 kg

GAZPROMNEFT GREASE L 2

UNIVERSAL



Gazpromneft Grease L 2 — universal grease based on mineral base oil and lithium thickener. It is intended for lubrication of industrial mechanisms and vehicles operating in moderate operating conditions with normal and minimal loads.

Colour:



Light brown

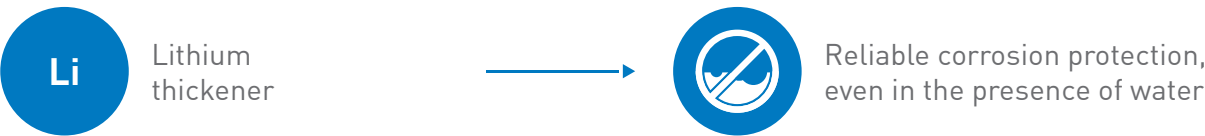
Temperature range:



-30 °C +120 °C +150 °C*

*Short term.

ADVANTAGES



APPLICATION

- Used in units where there is a restriction on the use of greases with EP additives.
- Used for centralised lubrication systems and as an embedded lubricant.

PACKAGING OPTIONS

0.4 kg, 0.8 kg, 4 kg, 18 kg, 180 kg

GAZPROMNEFT GREASE LTS MOLY EP 2, EP 1 ALL SEASONS



High loads



Shock loads



High contamination



Gazpromneft Grease LTS Moly EP 2, EP 1 All Seasons — universal greases based on mineral base oil, lithium-calcium thickener containing anti-wear additives (EP additives) and solid filler (molybdenum disulphide). Intended for use in a wide range of industrial equipment and machinery as an embedded lubricant.

Colour:



Dark grey

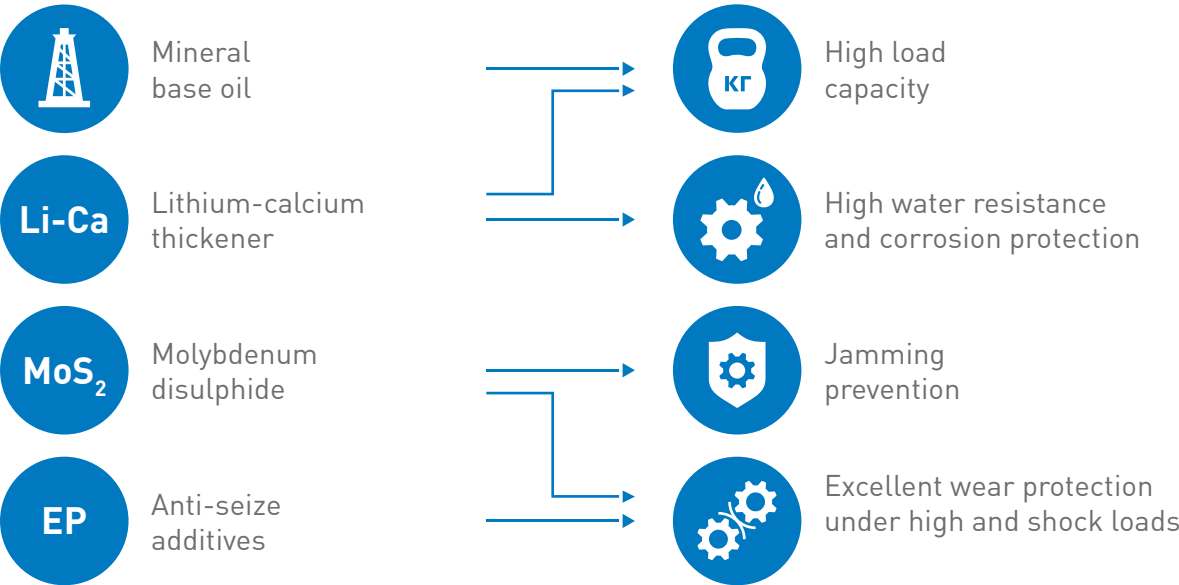
Temperature range:



-30 °C +120 °C +150 °C*

*Short term.

ADVANTAGES



APPLICATION

- CV-joints, guides, slewing rings and other friction units of various equipment operating under high and ultra-high loads, in conditions of contact with water, where the use of greases with solid fillers is recommended.
- Used as a universal grease (Gazpromneft Grease LTS Moly EP 2) and for centralised lubrication systems (Gazpromneft Grease LTS Moly EP 1 All Seasons). The performance of Gazpromneft Grease LTS Moly EP 1 All Seasons in pumping systems depends on the recommendations of the equipment manufacturer, the design features of the system and the operating pressure.

PACKAGING OPTIONS

0.4 kg, 18 kg, 180 kg

GAZPROMNEFT GREASE L MOLY EP 2

Protection against jamming



Gazpromneft Grease L Moly EP 2 — multifunctional grease based on mineral base oil and lithium thickener containing anti-wear additives (EP additives) and solid filler (molybdenum disulphide). It is intended for use in heavily loaded friction units of transport, equipment and machinery as an embedded lubricant.

Colour:



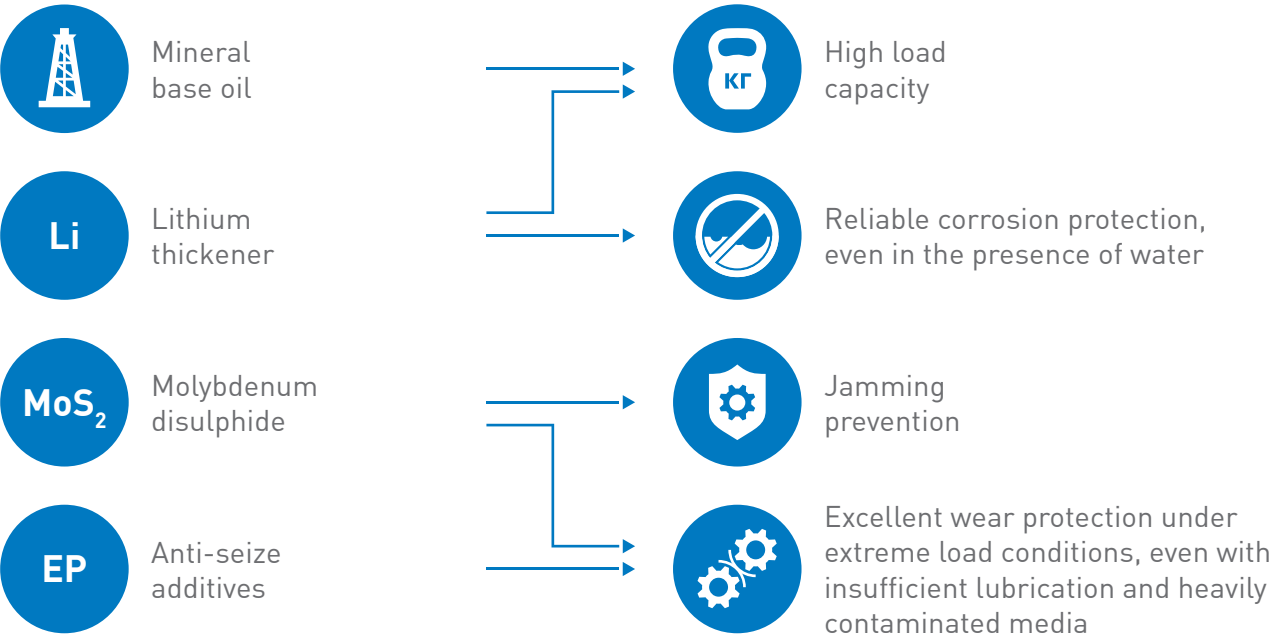
Dark grey

Temperature range:



*Short term.

ADVANTAGES



APPLICATION

- CV-Joints, rotary joints, various guides and other units of equipment and machinery operating under extremely high loads, where greases with solid fillers are allowed.
- Used as an embedded lubricant.

PACKAGING OPTIONS

0.4 kg, 18 kg, 180 kg

GAZPROMNEFT GREASE PREMIUM HD

SPECIAL Protection against jamming Extreme loads High contamination



Gazpromneft Grease Premium HD — multifunctional grease based on mineral base oil and lithium complex thickener with anti-wear additives (EP additives) and solid filler (molybdenum disulphide). It is intended for lubrication of friction units of construction, mining and other special-purpose machinery operated under ultra-high, shock and vibration loads.

Colour:



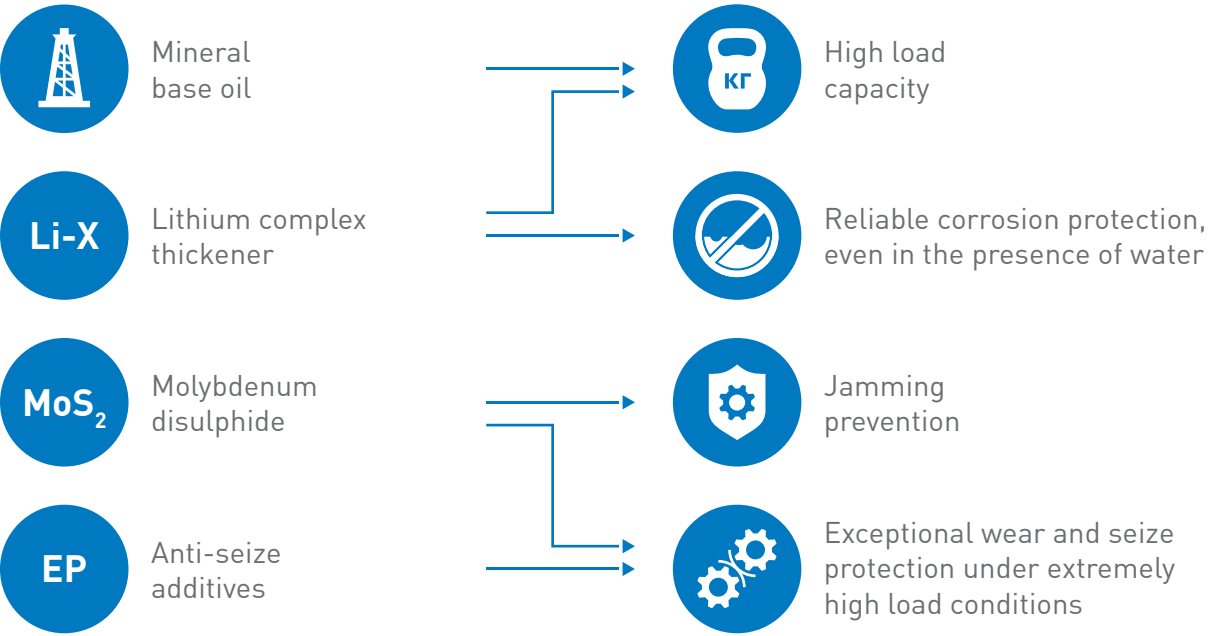
Dark grey

Temperature range:



*Short term.

ADVANTAGES



APPLICATION

- Rolling bearings of slewing rings, bolts, gears, axles, screws and other friction units subjected to impact loads.
- Used as an embedded lubricant.

PACKAGING OPTIONS

0.4 kg, 18 kg, 180 kg

GAZPROMNEFT GREASE HIGHSPEED EP 3

SPECIAL

Energy

High-speed equipment



Gazpromneft Grease HighSpeed EP 3 — specialised grease based on synthetic base oil and lithium-complex thickener containing anti-wear additives (EP additives). It is intended for use in high-speed bearings of electrical equipment and other units as a lubricant.

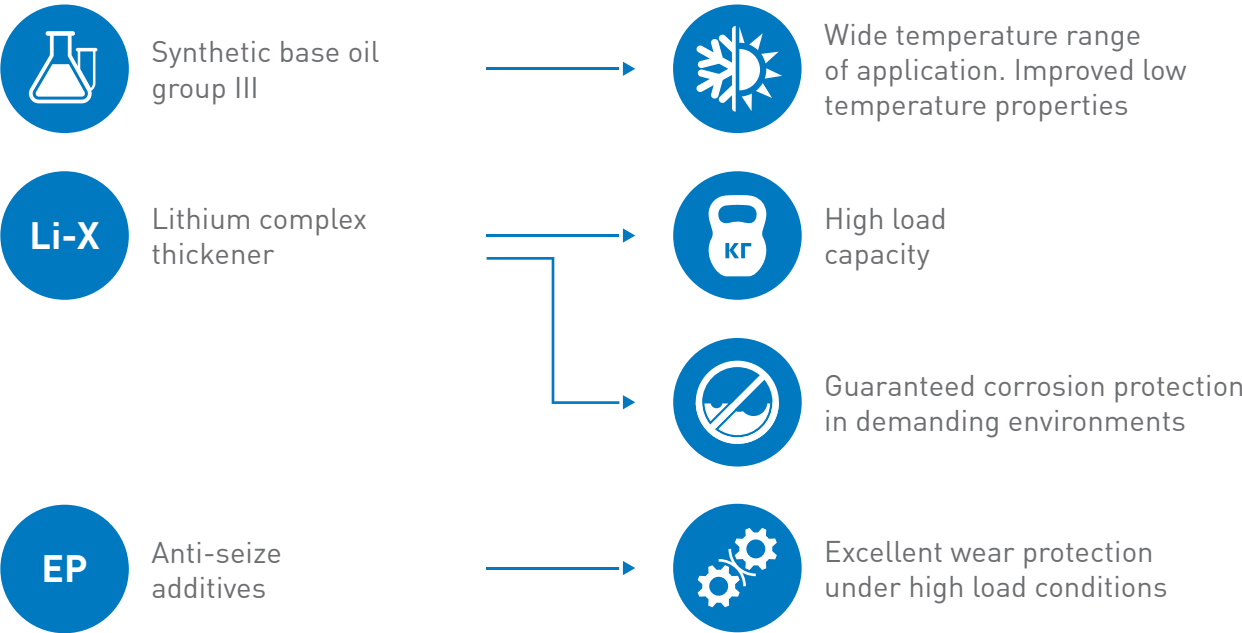
Colour:

Light beige

Temperature range:

-40 °C +140 °C

ADVANTAGES



APPLICATION

- Rolling bearings for electric motors.
- Wheels with high speed factor.
- High speed machine tools, industrial fans and other high speed equipment.

PACKAGING OPTIONS

0.4 kg, 18 kg, 180 kg

GAZPROMNEFT GREASE NORD MOLY

SPECIAL

Extreme loads

Extremely low temperatures



Gazpromneft Grease Nord Moly — specialised grease based on synthetic base oil and lithium complex thickener with anti-wear additives (EP additives) and solid filler (molybdenum disulphide). It is intended for use in highly loaded friction units of various machinery in the Far North.

Colour:

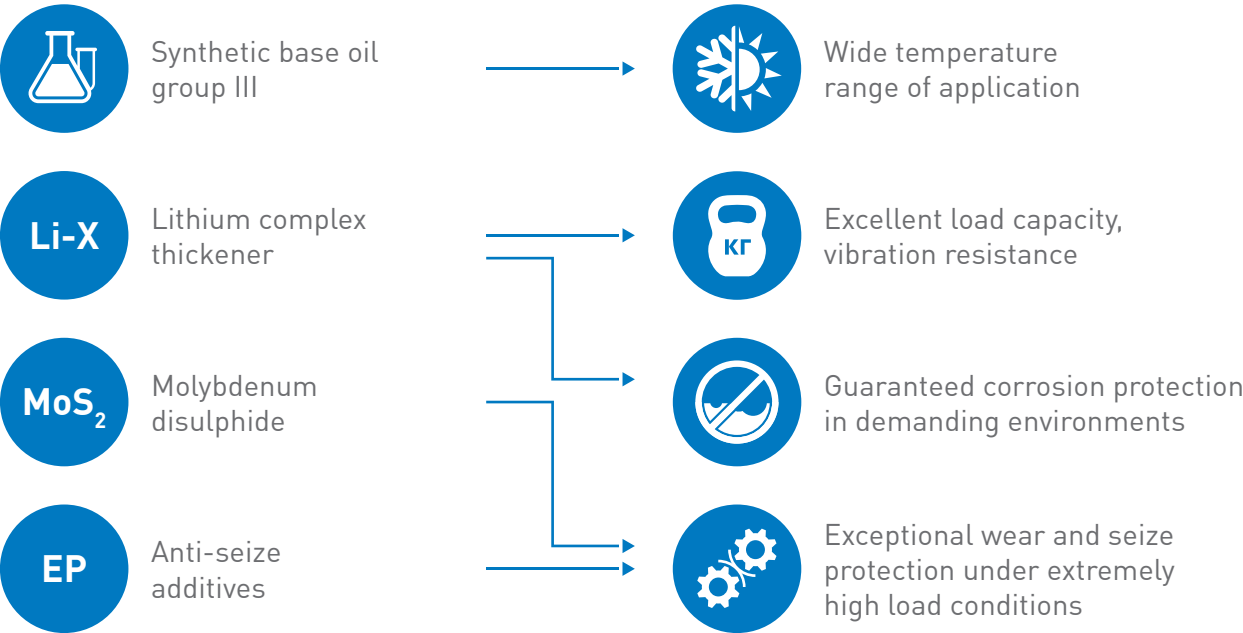
Dark grey

Temperature range:

-50 °C +120 °C +150 °C*

*Short term.

ADVANTAGES



APPLICATION

- Various extremely loaded friction units in equipment and machinery.
- Suitable for use in centralised lubrication systems according to manufacturer's recommendations.

PACKAGING OPTIONS

18 kg, 170 kg

GAZPROMNEFT STEELGREASE CS 1, 2

SPECIAL

 Ultra-high loads

 Extreme temperatures

 Excellent water resistance



Gazpromneft Steelgrease CS 1, 2 — greases based on mineral base oil and calcium sulphate thickener containing anti-wear additives (EP additives). They are intended for use in a wide range of industrial equipment, especially in the metallurgical industry, operating under conditions of particularly high temperatures, high loads and frequent contact with water.

Colour:



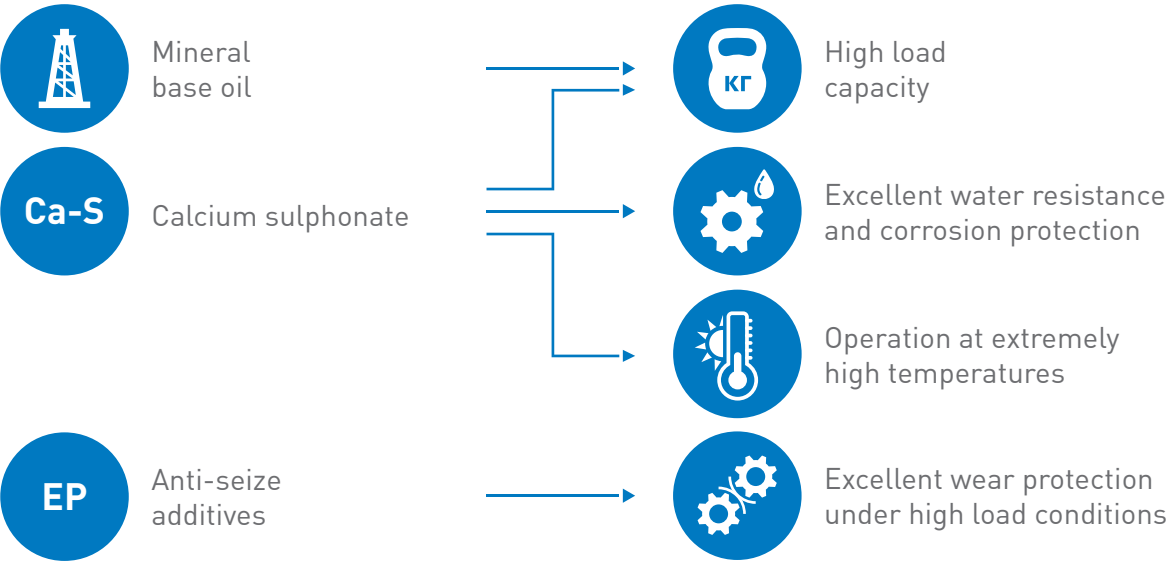
Brown*

Temperature range:



-30 °C +200 °C

ADVANTAGES



APPLICATION

- Bearings for continuous casting, hot rolling and other equipment of metallurgical plants.
- Equipment of metallurgical, pulp and paper, machine-building, shipbuilding and other industries.
- They are used in centralised lubrication systems (NLGI 1, 2) and as an embedded lubricant (NLGI 2).

* When in contact with water and moisture, the colour of the grease becomes lighter.

PACKAGING OPTIONS

0.4 kg, 18 kg, 180 kg

GAZPROMNEFT GREASE PM CS 1.5

SPECIAL

 Ultra-high loads

 Extreme temperatures

 Excellent water resistance



Gazpromneft Grease PM CS 1.5 — grease based on mineral base oil and calcium sulphate thickener containing anti-wear additives (EP additives). It is intended for use in heavy duty paper machines (PM): for medium and high-speed equipment units, under conditions of high temperatures, loads and direct water interaction.

Colour:



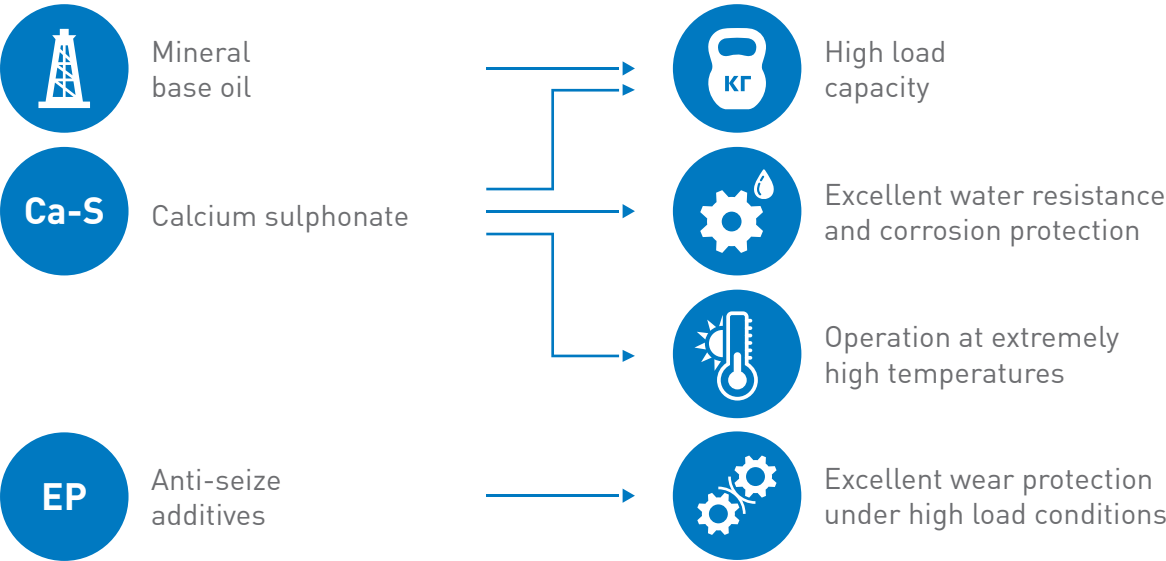
Brown*

Temperature range:



-30 °C +200 °C

ADVANTAGES



APPLICATION

- Bearings for continuous casting, hot rolling and other equipment of metallurgical plants.
- Equipment of metallurgical, pulp and paper, machine building, shipbuilding and other industries.
- Used in centralised lubrication systems, manual use.

* When in contact with water and moisture, the colour of the grease becomes lighter.

PACKAGING OPTIONS

18 kg, 180 kg

GAZPROMNEFT OFFROAD GREASE CS 2

SPECIAL

 Ultra-high loads

 Extreme temperatures

 Excellent water resistance



Gazpromneft Offroad Grease CS 2 — grease based on mineral base oil and calcium sulphonate thickener containing anti-wear additives (EP additives). It is intended for use in units of mobile off-road equipment operating under conditions of high temperatures, extremely high loads and low speeds.

Colour:



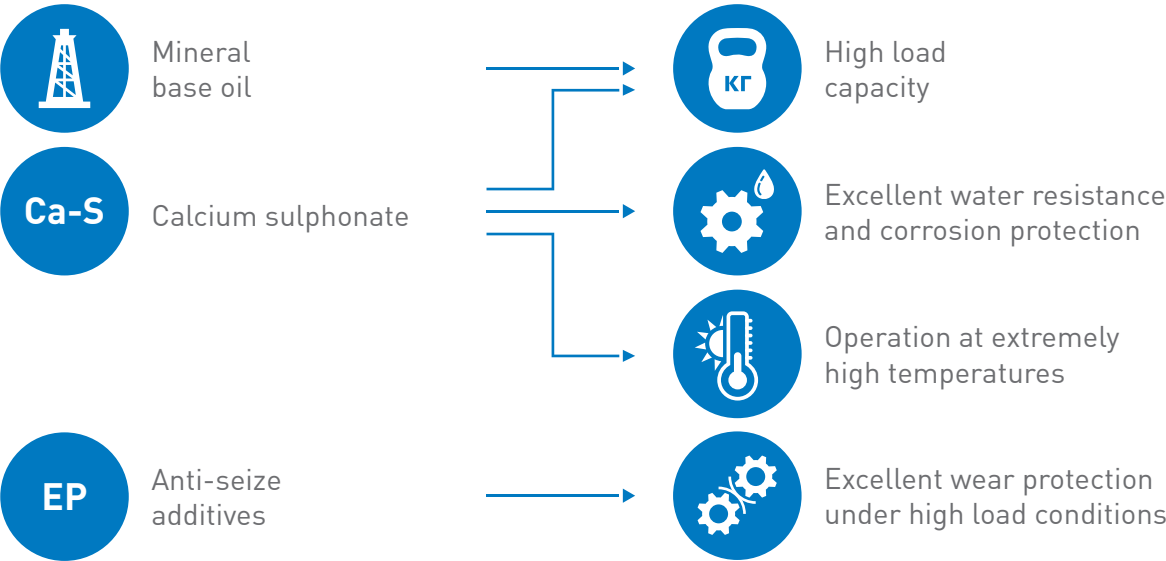
Brown*

Temperature range:



-30 °C +200 °C

ADVANTAGES



APPLICATION

- Equipment of mining, construction, shipbuilding and other machinery.
- Used both in centralised lubrication systems and as a tab.

* When in contact with water and moisture, the colour of the grease becomes lighter.

PACKAGING OPTIONS

0.4 kg, 18 kg, 180 kg

GAZPROMNEFT GREASE REDUCTOR LTS EP 00

 Extreme loads



Gazpromneft Grease Reductor LTS EP 00 — grease based on mineral base oil, lithium-calcium thickener, containing anti-wear additives (EP additives). It is intended for a variety of heavily loaded units of vehicles and industrial equipment in northern regions all year round.

Colour:



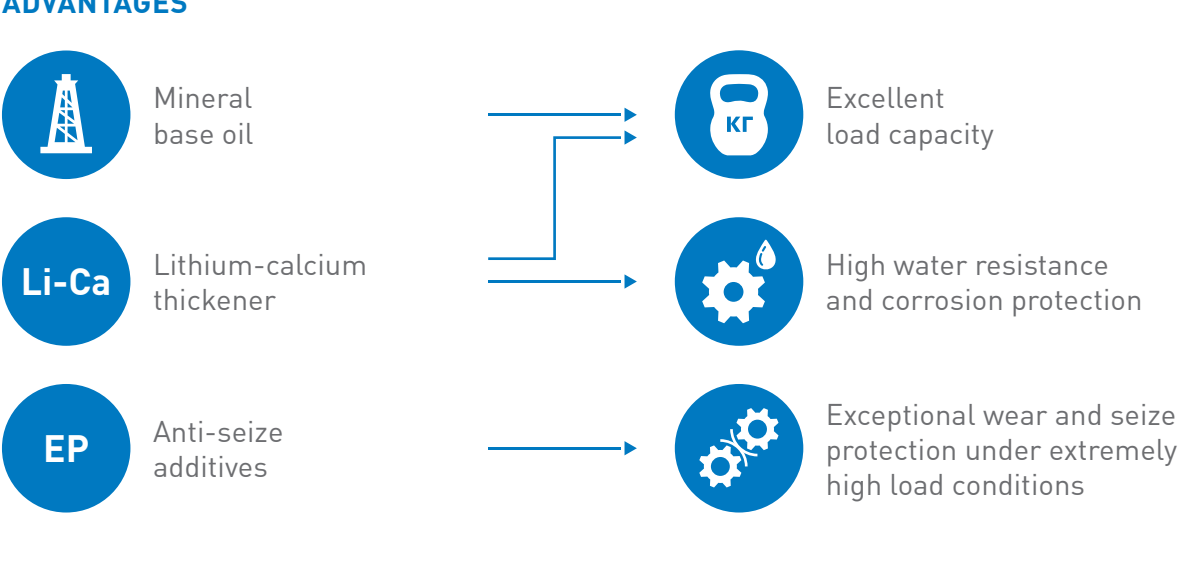
Brown*

Temperature range:



-40 °C +120 °C*

ADVANTAGES



APPLICATION

- For use in gearboxes that are not oil-tight, large bearings operating at low speeds, bushings, slideways and general purpose lubrication systems using liquid greases.
- Centralised lubrication systems for heavy duty equipment where the use of filler greases is restricted.

PACKAGING OPTIONS

0.1 kg, 0.4 kg, 4 kg, 8 kg, 18 kg, 180 kg

TYPICAL PHYSICO-CHEMICAL CHARACTERISTICS

Indicators	Method	Gazpromneft Grease Synth LX EP 2	Gazpromneft Premium Grease EP				Gazpromneft Grease HighSpeed EP 3	Gazpromneft Grease Nord Moly	Gazpromneft Grease LX EP		Gazpromneft Grease Premium HD	Gazpromneft Grease L EP				
			00	0	1	2			1	2		00	0	1	2	3
Conformity to DIN 51502 class	DIN 51502	KPHC 2 N-50	KP 00 K-50	KP 0 K-50	KP 1 P-40	KP 2 P-40	KP 3 N-30	KPF 0 K-50	KP 1 P-30	KP 2 P-30	KPF 2 N-25	KP 00 K-30	KP 0 K-30	KP 1 K-30	KP 2 K-30	KP 3 K-30
NLGI grade	ASTM D 217	2	00	0	1	2	3	0	1	2	2	00	0	1	2	3
Thickener type	—	Lithium complex soap										Lithium soap				
Filler type	—	—	—				—	Molybdenum disulphide	—	—	Molybdenum disulphide	—				
Dropping point, °C	GOST 32394 / GOST ISO 2176 / ASTM D 2256	>250	—	>210	>250	>250	>250	>210	>250	>250	>250	>170	>170	>180	>180	>190
Base oil	—	Synt.	Semi-synthetic				Group III	Mineral			Mineral					
Base oil kinematic viscosity at 40 °C, mm²/s	GOST 33 / ASTM D 445	—	100	100	100	100	45	20	220	220	320	160	160	160	160	160
4-Ball Load Test, Weld Point, N	GOST 9490 / ASTM D 2596	3 283	3 283	3 283	3 283	3 283	2 764	4 136	3 283	3 283	5 508	2 450	2 450	2 450	2 450	2 450
Four-Ball Wear, Scar mm	GOST 9490 / ASTM D 2266	0,6	0,5	0,5	0,5	0,5	0,6	0,6	0,6	0,6	0,5	0,5	0,5	0,5	0,5	0,5

Gazpromneft Grease EP		Gazpromneft Grease L 2	Gazpromneft Grease L Moly EP 2	Gazpromneft Grease LTS		Gazpromneft Grease LTS Moly EP		Gazpromneft Grease Reductor LTS EP 00	Gazpromneft Grease Steelgrease CS	Gazpromneft Grease Offroad CS 2	Gazpromneft Grease PM CS 1.5
2	3			1	2	1	2		1	2	
KP 2 K-40	KP 3 K-40	K 2 K-30	KPF 2 K-30	KP 1 K-30	KP 2 K-30	KPF 1 K-30	KPF 2 K-30	GP 00 K-40	KP 1 S-30	KP 2 S-30	KP 2 S-30
2	3	2	2	1	2	1	2	00	1	2	2
Lithium soap				Lithium-calcium soap				Calcium sulphonate			
—	—	Molybdenum disulphide	—	—	Molybdenum disulphide	—	—	—	—	—	—
>190	>200	>180	>180	>180	>180	>180	>180	>160	>300	>300	>300
Mineral											
70	70	160	160	220	220	220	220	600	460	460	420
2 450	2 450	1 646	3 087	2 930	2 930	4 136	4 136	4 000	4 136	4 136	4 136
—	—	—	0,5	0,6	0,6	0,5	0,5	0,7	0,5	0,5	0,5

The specified values of physical and chemical parameters are typical and may vary slightly from batch to batch. The main limits of values are presented in the normative documentation. Data for 2024.

LUBRICANTS OF GOST STANDARD



Lithol-24
NLGI grade: 3

Gazpromneft Lithol
NLGI grade: 3

Antifriction multipurpose water-resistant greases based on mineral oil, lithium soap and highly effective additive package. They are used in rolling and friction bearings of all types, joints, gears and other transmissions, on friction surfaces of wheel and caterpillar vehicles, in industrial mechanisms, electric machines, etc. Operable at temperatures from -40 to +120 °C, briefly retain operability at temperatures up to +130 °C. Lithol-24 grease is produced in accordance with GOST 21150-2017.

Colour:



Temperature range:



* Short term.

PACKAGING OPTIONS

0.1 kg, 0.15 kg, 0.3 kg, 0.4 kg, 0.8 kg, 4 kg, 8 kg, 18 kg, 45 kg, 170 kg



CV-joint-4M
NLGI grade: 2

Gazpromneft CV-joint
NLGI grade: 2

Water-resistant lithium greases based on mineral oil and high-performance additive package with addition of molybdenum disulphide. Designed for lubrication of equal-angle joints of vehicles, clutch bearings, rear brake drum seating, splines of cardan shafts and other friction units.

Colour:



Temperature range:



* Short term.

PACKAGING OPTIONS

0.1 kg, 0.15 kg, 0.3 kg, 0.4 kg, 18 kg, 170 kg

TYPICAL PHYSICO-CHEMICAL CHARACTERISTICS

Indicators	Method	GOST			
		Gazpromneft Lithol	Lithol-24	CV-joint-4M	Gazpromneft CV-joint
Conformity to DIN 51502 class	DIN 51502	K 3 K-40	K 3 K-40	KPF 2 K-40	KPF 2 K-40
NLGI grade	ASTM D 217	3	3	2	2
Thickener type	—	Lithium soap			
Filler type	—	—	—	Molybdenum disulphide	
Dropping point, °C	GOST 6793 / ISO 2176	192	190	190	190
Base oil	—	Mineral			
4-Ball Load Test, Weld Point, N	GOST 9490 / ASTM D 2596	1 470	1 470	4 900	4 900
Welding load (four-ball machine), N	GOST 9490 / ASTM D 2596	617	617	1 098	—
Four-Ball Wear, load wear index, N	GOST 9490 / ASTM D 2596	274	274	559	—

The specified values of physical and chemical parameters are typical and may vary slightly from batch to batch. The main limits of values are presented in the normative documentation. Data for 2024.

QUESTIONNAIRE (FOR THE PURPOSE OF SELECTING GREASE FOR THE FRICTION UNIT)	
Company	
Workshop, section	
Name of equipment where the lubricant is used	
Friction nodes where the lubricant works	Vertical-horizontal loads: High (more than 4,000 N), medium (2,400 to 3,000 N, low (less than 2,400 N) Shock-vibration loads: high, medium, low
Method of lubricant supply (automatic, manual)	
In case the described node has these parameters:	
Outer bearing diameter (mm)	
Inner bearing diameter (mm)	
Rotation speed (rpm)	
Application temperature range	
Operating conditions of the equipment	
Lubricants recommended by the machine manufacturer	
lubricant that is currently in use	
Remarks from previous use of the lubricant	

GAZPROMNEFT UNIVERSAL GREASE

-  Household applications
-  Various friction units



Gazpromneft Universal Grease — universal multifunctional lithium grease with EP additives. Designed for lubrication of various friction units (bearings, hinges, joints, medium-load gears, machine parts, tools, etc.).

Colour:

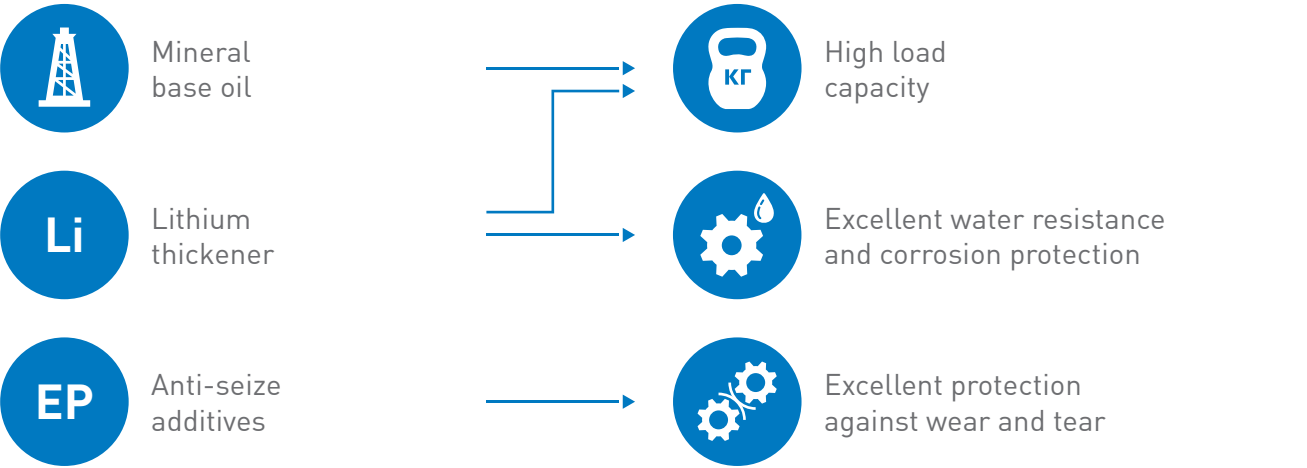


Temperature range:



*Short term.

ADVANTAGES



APPLICATION

- Bearings, hinges, joints, medium load gears, machine parts, tools, etc.
- Suitable for centralised lubrication systems as embedded lubricant.

PACKAGING OPTIONS

0.1 kg

TYPICAL PHYSICO-CHEMICAL CHARACTERISTICS		
Physico-chemical characteristics	Method	Gazpromneft Universal Grease
Conformity to DIN 51502 class	DIN 51502	KP 2 K-30
NLGI grade	ASTM D 217	2
Thickener type	—	Lithium soap
Dropping point, °C	GOST 32394 / GOST ISO 2176 / ASTM D 2256	>190
Base oil	—	Mineral
Base oil kinematic viscosity at 40 °C, mm²/s	GOST 33 / ASTM D 445	160
4-Ball Load Test, Weld Point, N	GOST 9490 / ASTM D 2596	2 400
Four-Ball Wear, Scar mm	GOST 9490 / ASTM D 2266	0,5

The specified values of physical and chemical parameters are typical and may vary slightly from batch to batch. The main limits of values are presented in the normative documentation. Data for 2024.

SPECIAL SUPPLEMENT		
Lubricant	Conditions of use	Equipment/application units
Metallurgy		
Gazpromneft Steelgrease CS 1, 2	Lubricant for industrial equipment units where there are ultra-high loads, high temperatures, frequent contact of lubricant with water and low speeds.	Bearings of continuous casting, hot rolling and other equipment of metallurgical plants Special transport of various industries
Specialised vehicles of various industries		
Gazpromneft Offroad Grease CS 2	Grease for mobile off-road equipment operating in conditions of high temperatures, extremely high loads and low speeds	Logging, mining, construction, agricultural and other special-purpose machinery
Gazpromneft Grease Nord Moly	Grease for lubricating friction units of machinery operating under extremely high loads and a wide range of temperatures, including in the Far North.	The performance of Gazpromneft Grease Nord Moly in pumping systems depends on the recommendations of the machinery manufacturer, the design features of the automatic lubrication system and the operating pressure
Pulp and paper industry		
Gazpromneft Grease PM CS 1.5	Grease for friction units operating at high temperatures and ultra-high loads.	Used under severe conditions of paper machines: medium and high-speed equipment units, high temperatures, high loads and direct water interaction
High-speed equipment		
Gazpromneft Grease HighSpeed EP 3	Grease for lubrication of medium- and lightly loaded rolling bearings of high-speed equipment	Electric motors (including those installed on drilling platforms and oil refineries), high-speed machine tools, industrial fans, high-speed wheels.
Heavy duty equipment		
Gazpromneft Grease Reductor LTS EP 00	Lubricant for a wide range of heavy duty components in vehicles and industrial equipment over a wide temperature range.	In gearboxes and large bearings operating at low speeds, bushings, slideways and general purpose lubrication systems using liquid greases.

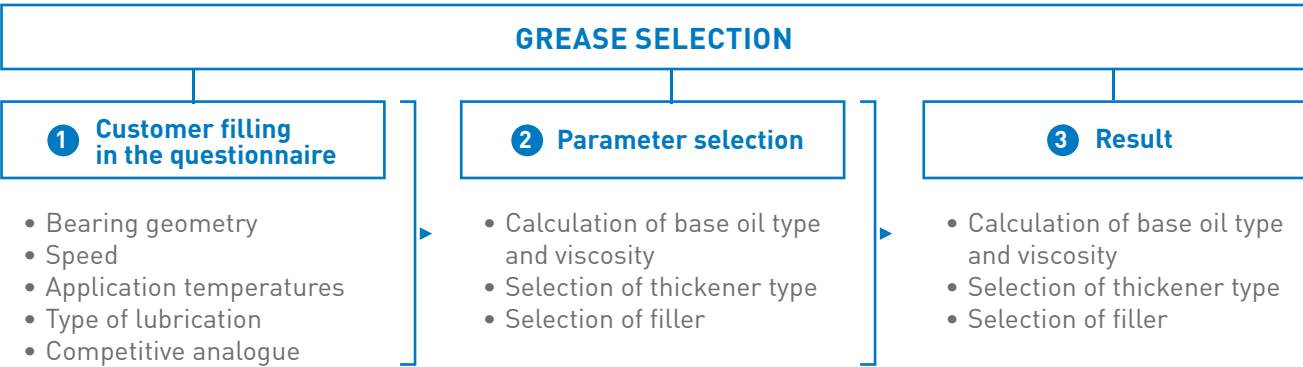
TECHNICAL SERVICES

Lubricant maintenance service - evaluation of the efficiency of grease application and control of grease performance in various friction units under actual operating conditions at the production site.

The purpose of the service is to offer consumers existing products manufactured by Gazpromneft-Lubricants and help them to get the greatest benefits from the purchased goods.

To implement technical services, the company's specialists use a unique complex of mobile diagnostic equipment, which allows them to competently assess the condition of the lubricant and the unit in which it is used at any point in real time.

! The service enables optimisation of lubricant purchases, machine operation, and the elimination of unscheduled downtime and breakdowns.

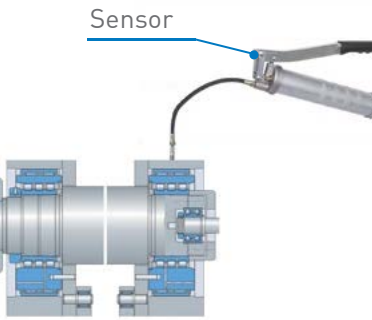


MONITORING PROGRAMME

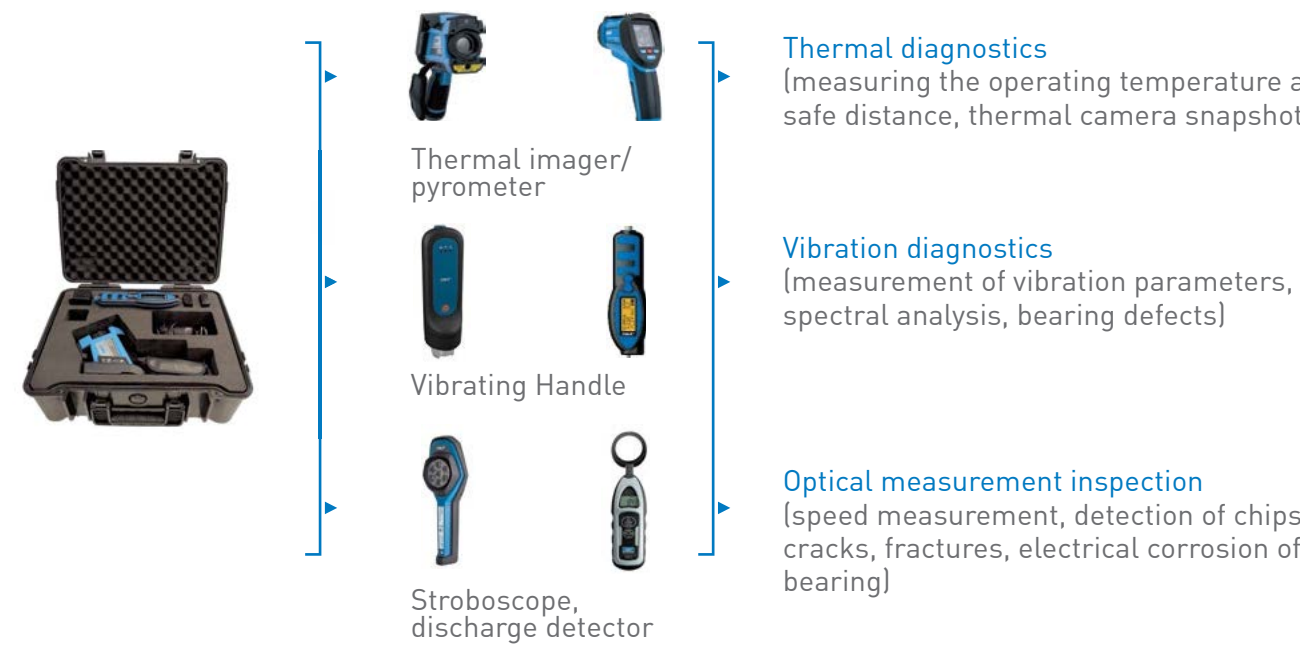
Parameters for lubrication assessment	Results
- Resistance to high temperatures - Coking - Pumpability - Water washout - Grease consumption	- Proven lubricant performance - Replacement time recommendations - Optimum grease consumption confirmed by tests on individual machine sections - Evaluation of lubrication performance and early detection of incipient bearing defects. - Report with feasibility study on the use of the product - Terms of reference for implementation

! Monitoring is possible both in the process of product implementation and during its use.

ENGINEERING SOLUTIONS APPLICABLE TO ALL TYPES OF LUBRICATION SYSTEMS

Automatic station	Additional features	Advantages
	- Allocation of individual friction units for monitoring - Lubricant supply is possible in places where no human is available - Customisation of the required volume and interval for the lubricant to be supplied - Human-independent lubrication process (strict interval)	- Application of grease to a localised area of the machine, unit, sub-assembly - No need to purchase large quantities of grease for tests
Manual discharge	Additional features	Advantages
	- Allocation of individual bearing units for monitoring - Monitoring of the filling volume of the unit via an integrated sensor	- No relubrication effect in the bearing unit - No grease overrun when greasing bearings - No increased resistance during bearing rotation

DIAGNOSTIC EQUIPMENT



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