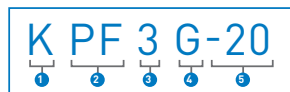


CLASSIFICATION OF GREASES ACCORDING TO DIN 15102



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

1 Purpose of grease	2 Composition (base oil, additives, etc.)
K For rolling and plain bearings, sliding surfaces	P EP additive
G For enclosed gearboxes according to DIN 51826	F Solid filler
OG For open gearboxes	E Polyester oil
M For bearing/seal pairs	FK Perfluorinated liquid
	HC Synthetic hydrocarbons
	PH Phosphoric acid ester-based oil
	PG Polyglycol oil
	SI Silicone oil
	X Other oils

3 NLGI class	Penetration at 25 °C	Consistency	Area of application
000	445–475	Very soft – similar to viscous oil	Gear drives / centralized lubrication systems
00	400–430	Soft semi-fluid	
0	355–385	Soft	
1	310–340	Soft	Enclosed gear drives / plain and rolling bearings / centralized lubrication systems
2	265–295	Soft	Plain and rolling bearings / linear guides / centralized lubrication systems
3	220–250	Semi-solid	Plain and rolling bearings
4	175–205	Hard	Rolling bearings / water pump seals
5	130–160	Very hard	Open gear drives / water pump seals
6	85–115		

4 Conditions of use	Upper limit of operating temperature, °C	Resistance to washing out with water at a temperature, °C
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	
P	160	
R	180	
S	200	No requirements
T	220	
U	>220	

5 Lower temperature range of application

The minimum temperature at which the grease reliably performs its functions at the corresponding operating temperature is indicated.

STORAGE AND TRANSPORTATION

Transportation and storage in accordance with GOST 1510-2022

Problems caused by improper storage

FACTORS	CONSEQUENCES
Overheating and exposure to UV radiation	• Oil separation; • Deterioration of mechanical stability; • Decrease in NLGI class (uneven consistency across container volume);
Vibration	
Negative temperatures	
Storage in a horizontal position	Damage to barrel opening seal;
Water ingress	• Hardening (calcium greases); • Decrease in additive level (anti-corrosion);

How to store correctly

1. Dry warehouse
2. Constant positive temperature 0...+40 °C
3. No exposure to sunlight
4. Vertical positioning of containers
5. Container lids tightly closed
6. Storage on pallets

THICKENER COMPATIBILITY TABLE

	Li	Ca	Na	LiX	CaX	NaX	BaX	AlX	Clay	Pu	CaS
Li	+	0	—	+	—	0	0	—	0	0	+
Ca	0	+	0	+	—	0	0	—	0	0	+
Na	—	0	+	0	0	+	+	—	0	0	—
LiX	+	+	0	+	+	0	0	+	—	—	+
CaX	—	—	0	+	+	0	—	0	0	+	+
NaX	0	0	+	0	0	+	+	—	—	0	0
BaX	0	0	+	0	—	+	+	+	0	0	0
AlX	—	—	—	+	0	—	+	+	—	0	—
Clay	0	0	0	—	0	—	0	—	+	0	—
Pu	0	0	0	—	+	0	0	0	0	+	+
CaS	+	+	—	+	+	0	0	—	—	+	+

+	Compatible
—	Not compatible
0	Testing required

Li – Lithium
Ca – Calcium
Na – Sodium
LiX – Complex lithium

CaX – Complex calcium
NaX – Complex sodium
BaX – Complex barium
AlX – Complex aluminium

Clay – Bentonite
Pu – Polyurea
CaS – Calcium sulfonate

The information provided about plastic lubricants, including their properties, application areas and characteristics, is for informational and reference purposes only. The stated performance characteristics of the lubricant can only be achieved if it is stored and used correctly in the conditions for which it is intended.

GAZPROMNEFT GREASES

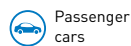
TYPES OF PACKAGING



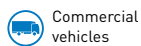
For technical questions, please contact customer support at 365@gazprom-neft.ru.



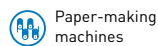
	Product	Color	Thickener	Base oil	Base oil viscosity at 40 °C	Filler	NLGI	Classification according to DIN 51502	T min/ max	Application						Features
Expert choice	Gazpromneft Grease Synth LX EP 1 HD		Li-complex	PAO	100	MoS2 - 2 %	1	KPFHC 1 N-50	-50...+150	  	✓✓✓	✓	✓✓✓	✓✓✓	✓	Premium grease with solid lubricant additives for maximum service life
	Gazpromneft Grease Synth LX EP 2		Li-complex	PAO	100		2	KPHC 2 N-50	-50...+150	    	✓✓✓	✓	✓✓✓	✓✓		Premium multi-purpose grease for maximum rolling bearing service life
	Gazpromneft Grease Nord Moly		Li-complex	synthetic	20	MoS2 - 3 %	0	KPF 0 K-50	-50...+120	 	✓✓	✓	✓✓✓	✓✓✓	✓	Synthetic grease for automatic centralized lubrication systems of mobile equipment operating in Arctic conditions
	Gazpromneft Grease HighSpeed EP 3		Li-complex	synthetic	45		3	KP 3 N-40	-40...+140	 	✓✓	✓✓	✓✓	✓✓		Grease for high-speed rolling bearings
Professional level	Gazpromneft Grease Premium HD		Li-complex	mineral	320	MoS2 - 5 %	2	KPF 2 N-25	-25...+140	  	✓✓	✓✓	✓	✓✓✓	✓	Specialised grease for operation under extremely high shock and vibration loads
	Gazpromneft Grease LTS Moly EP 1		LiCa	mineral	220	MoS2 - 3 %	1	KPF 1 K-30	-30...+120	  	✓✓	✓	✓	✓✓✓	✓	Universal grease with solid filler for friction units operating in wet and contaminated conditions
	Gazpromneft Grease LTS Moly EP 2						2	KPF 2 K-30								
	Gazpromneft Grease L Moly EP 2		Li	mineral	160	MoS2 - 2 %	2	KPF 2 K-30	-30...+120	 	✓	✓	✓	✓✓	✓	Lubricant for sliding components in commercial vehicles and specialised equipment operating in moderate conditions
	Gazpromneft Premium Grease EP 1		Li-complex	semi-synthetic	100		1	KP 1 P-40	-40...+160	    	✓✓	✓✓	✓✓	✓✓		A series of improved multi-purpose lubricants for a wide range of applications
	Gazpromneft Premium Grease EP 2						2	KP 2 P-40								
	Gazpromneft Premium Grease EP 00		Li-complex	semi-synthetic	100		00	KP 00 K-50	-50...+120	   	✓✓	✓	✓✓✓	✓✓		A series of improved multi-purpose lubricants for a wide range of applications
	Gazpromneft Premium Grease EP 0						0	KP 0 K-50								
	Gazpromneft SteelMar Grease CS		CaS	mineral	600		0,5	OGP 0/1 S-30	-30...+200	 	✓✓✓	✓✓✓	✓	✓✓		Lubricant for open gearboxes in marine equipment
	Gazpromneft OffRoad Grease CS 2		CaS	mineral	420		2	KP 2 S-30	-30...+200	 	✓✓✓	✓✓✓	✓	✓✓✓		Specialised lubricant for off-road equipment
	Gazpromneft Steelgrease CS 1		CaS	mineral	460		1	KP 1 S-30	-30...+200	  	✓✓✓	✓✓✓	✓	✓✓✓		Specialised lubricant for heavy-duty industrial and metallurgical applications
	Gazpromneft Steelgrease CS 2						2	KP 2 S-30								
	Gazpromneft Grease LX EP 1		Li-complex	mineral	220		1	KP 1 P-30	-30...+160	    	✓✓	✓✓	✓	✓✓		Universal grease with improved performance characteristics
	Gazpromneft Grease LX EP 2						2	KP 2 P-30								
	Gazpromneft Grease LTS 1		LiCa	mineral	220		1	KP 1 K-30	-30...+120	   	✓✓	✓	✓	✓✓		Universal grease for friction units operating in wet and contaminated conditions
	Gazpromneft Grease LTS 2						2	KP 2 K-30								
	Gazpromneft Grease PM CS 1,5		CaS	mineral	160		1,5	KP 1-2 S-30	-30...+200	 	✓✓✓	✓✓✓	✓	✓✓✓		Specialised grease for heavy-duty industrial and pulp and paper mill applications
Basic quality	Gazpromneft Grease L EP 00						00	KP 00 K-30								
	Gazpromneft Grease L EP 0		Li	mineral	160		0	KP 0 K-30	-30...+120	 	✓	✓	✓	✓		A series of multi-purpose greases for a wide range of applications
	Gazpromneft Grease L EP 1						1	KP 1 K-30								
	Gazpromneft Grease L EP 2						2	KP 2 K-30								
	Gazpromneft Grease L EP 3						3	KP 3 K-30								
	Gazpromneft Grease CaX EP 1-220		Ca-complex	mineral	220		1	KP 1 P-25	-25...+160	  	✓✓✓	✓✓	✓	✓✓		Specialised lubricant for loaded units
	Gazpromneft EP 2		Li	mineral	70		2	KP 2 K-40	-40...+120	 	✓	✓	✓✓	✓		Multi-purpose lubricant for equipment operating under moderate conditions
	Gazpromneft EP 3						3	KP 3 K-40								
	Gazpromneft Grease Reductor LTS EP 00		LiCa	mineral	600		00	GP 00 K-40	-40...+120	 	✓✓	✓	✓✓	✓✓✓		Lubricant for heavily loaded oil-impermeable gearboxes and bearings
	Gazpromneft lubricant for Constant Velocity (CV) Joint Grease		Li	mineral	100	MoS2 - 4 %	2	KPF 2 K-40	-40...+120	 	✓	✓	✓✓	✓✓	✓	Lubricant for constant velocity joints in automotive and commercial vehicles
	Gazpromneft Grease L 2		Li	mineral	160		2	K 2 K-30	-30...+120			✓	✓	✓		Industrial lubricant without additives
	Litol-24		Li	mineral	100		3	K 3 K-40	-40...+120	   		✓	✓✓	✓		GOST-compliant lubricant with time-tested quality
	Gazpromneft Universal Grease		Li	mineral	160		2	KP 2 K-30	-30...+120			✓	✓			Lubricant for domestic use



Passenger cars



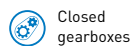
Commercial vehicles



Paper-making machines



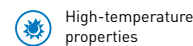
Industrial sector



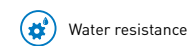
Closed gearboxes



Extended service life



High-temperature properties



Water resistance

Ver 01/2026



Marine equipment



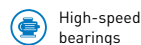
Off-road vehicles



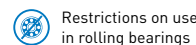
Heavy industry



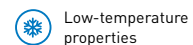
Open gearboxes



High-speed bearings



Restrictions on use in rolling bearings



Low-temperature properties



Load factor

