



# Lubricants for metallurgy





## THE COMPANY

Gazpromneft-Lubricants Ltd is a subsidiary company of Gazprom Neft JSC specializing in production and sales of a wide range of engine, transmission, hydraulic and industrial oils, greases and technical fluids.

Established in November of 2007. Gazpromneft-Lubricants Ltd has 5 production sites in Russia, Italy and Serbia. Overall production is 500K tons of high-quality oils, greases and technical fluids per year.

The company's management system is certified in compliance with ISO 9001, ISO 14001, ISO/TS 16949 and OHSAS 18001. The company supplies its products to the Russian conveyors of Mercedes Benz Trucks Vostok, AVTOTOR (for General Motors and Hyundai car range), AC DERWAYS, KAMAZ, GAZ, SC ROSTSELMASH.

The consumers of Gazpromneft-Lubricants industrial products are Severstal, Sibur, Gazprom, Evraz, MMK and other largest industrial companies. The product range includes 500 oil, grease, and technical fluids types for all market segments (more than 1000 items).

Gazpromneft-Lubricants is the intensively developing company with the unique resource base. The company's goal is to become a leader in technology, marketing and service in the production and sales of high-tech oils, greases and fluids on the Russian and international markets.

The company is one of the lubricant market leaders in Russia and also operates in the Mediterranean, the Balkans, Eastern and Northern Europe, CIS, the Baltics, Central and South-East Asia, Africa and others. Overall production of the company is represented in more than 50 countries .

**GAZPROMNEFT-LUBRICANTS LTD PRODUCES AND CARRIES OUT THE PRODUCTION OF THE FOLLOWING BRANDS ON MARKET:**

**G-PROFI**

**G-ENERGY**

**GAZPROMNEFT**

Premium oils  
for commercial  
sector

Premium oils  
for consumer  
sector

Oils for commercial  
and consumer  
sectors

Oils for industrial  
sector

In the industrial and commercial market sectors Gazpromneft Lubricants focuses on the development and the implementation of the specialized lubricants range that meet international quality standards and requirements of the leading manufacturers of the industrial equipment and machinery.

This booklet represents hydraulic, reductor, compressor, rolling, quenching and other industrial oils and greases intended for use in metal industry.



## OILS FOR ROLLING MILLS



- GAZPROMNEFT ROMIL ISO VG — 220, 320, 460
- I46PV, I220PV, I460PV
- PS-28, P-40

## HYDRAULIC OILS



- GAZPROMNEFT HYDRAULIC HLP ISO VG - 32, 46, 68, 100
- GAZPROMNEFT HYDRAULIC HVLP ISO VG — 10, 15, 22, 32, 46, 68
- GAZPROMNEFT HYDRAULIC HZF ISO VG - 32, 46, 68
- GAZPROMNEFT HYDRAULIC HLPD ISO VG - 32, 46, 68
- GAZPROMNEFT HYDRAULIC ISO VG - 32, 46, 68, 100
- IGP ISO VG - 18, 30, 38, 49, 72, 114, 152

## HYDRAULIC OILS



- G-SPECIAL HYDRAULIC HVLPD ISO VG — 46
- G-SPECIAL HYDRAULIC NORD ISO VG — 32

## REDUCTOR OILS



- GAZPROMNEFT REDUCTOR F ISO VG - 150, 220, 320, 460
- GAZPROMNEFT REDUCTOR CLP ISO VG - 68, 100, 150, 220, 320, 460, 680
- GAZPROMNEFT REDUCTOR WS ISO VG - 100, 150, 220
- GAZPROMNEFT REDUCTOR ITD ISO VG - 68, 100, 150, 220, 320, 460, 680

## COMPRESSOR OILS



- GAZPROMNEFT COMPRESSOR S SYNTH ISO VG - 46, 68, 100, 150
- GAZPROMNEFT COMPRESSOR OIL ISO VG - 46, 68, 100, 150, 220
- KS-19P (A)

## OILS FOR SLIDEWAYS



- GAZPROMNEFT SLIDE WAY ISO VG - 68, 220

## QUENCHING OIL



- GAZPROMNEFT THERMOIL

## GENERAL PURPOSE INDUSTRIAL OILS



- GAZPROMNEFT INDUSTRIAL 40
- I-12, I-12A, I-20A, I-40A, I-50A

## GREASES



- GAZPROMNEFT GREASE L 2
- GAZPROMNEFT GREASE L EP 00, 0, 1, 2, 3
- GAZPROMNEFT GREASE L MOLY EP 2
- GAZPROMNEFT METALGREASE AC
- GAZPROMNEFT GREASE LTS 1, 2
- GAZPROMNEFT GREASE LTS MOLY EP 2
- GAZPROMNEFT GREASE LX EP 2
- GAZPROMNEFT STEELGREASE CS 1, 2
- GAZPROMNEFT GREASE SYNTH LX EP 2





**GAZPROMNEFT ROMIL  
ISO VG — 220, 320, 460**

Series of circulation oils for film-lubrication bearing used in metal industry. Gazpromneft Romil products are manufactured on a basis of special highly refined base oils with carefully selected additives that enhance stability against oxidation, anti-corrosion and antiwear properties. Gazpromneft Romil oils have high demulsibility.

**Approvals/compliances:**

Danieli;  
Morgoil – Standard Lubricant (SN 180-3:2009-01);  
Morgoil – Standard Lubricant (SN 180-4:2009-01).



**GAZPROMNEFT  
I46PV, I220PV, I460PV**

Industrial oils of Gazpromneft IPV series are designed for the lubrication of film-lubrication bearings of rolling mills. Gazpromneft IPV oils represent the mix of refined mineral petroleum oils with additives that enhance anti-corrosion, anti-oxidation, demulsifying and antifoaming oil properties.



**GAZPROMNEFT  
PS-28, P-40**

Oil series designed for use in rolling mill reducers and other heavy-duty machinery. Have good thermal-oxidative and lubricating properties, ensure stability of the oil film bearing capacity.

Typical characteristics	Gazpromneft Romil		
	220	320	460
Kinematic viscosity at 100 °C, mm <sup>2</sup> /s	18,7	24,0	30,3
Viscosity index	90	90	90
Density at 20 °C, kg/m <sup>3</sup>	890,3	894,2	898,7
Flash-point in open cup, °C	230	250	260
Pour point, °C	-12	-12	-10
Copper corrosion, 3h at 100 °C	1B	1B	1B
Rust protection, distilled water	withstands	withstands	withstands
Demulsibility	20	20	30

Typical characteristics	I46PV	I220PV	I460PV	PS-28	P-40
	Kinematic viscosity at 100 °C, mm <sup>2</sup> /s	7,1	18,7	29,14	29,7
Viscosity index	95	90	94	82	84
Flash-point in open cup, °C	220	250	280	290	285
Pour point, °C	-22	-22	-21	-20	-16
Acid number, mg KOH per 1g of oil	0,42	0,42	0,42		
Content of sulphur, %				0,7	0,8
Cokeability, %	0,2	0,4	0,5		0,91
Density at 20 °C, kg/m <sup>3</sup>	890,3	897,2	898,7	0,909	0,906



**GAZPROMNEFT HYDRAULIC HLP**  
ISO VG — 32, 46, 68, 100

Specially designed for use in hydraulic systems in machines, automatic lines, heavy presses and other modern equipment requiring the use of high-quality alloy oils. Based on mineral oils of deep selective cleaning with multifunctional additive package that ensures high performance product properties compliant with requirement of the world's leading machinery manufacturers. Have perfect filterability confirmed by tests on 1,2-micron membrane by the Pall company method. The use of Gazpromneft Hydraulic HLP oils allows to reduce costs for service and repair of hydraulic system units.

**Approvals/compliances:**

DIN 51524 Part 2; ISO 11158; Denison HF0,1,2; Cincinnati Machine P-68 (ISO 32); Cincinnati Machine P-70 (ISO 46); Cincinnati Machine P-69 (ISO 68); Eaton Vickers 35VQ25; Bosch Rexroth 90220; Bekum (ISO 46); Demag (ISO 68); Battenfeld; Beltramelli; ENGEL (ISO 46).



**GAZPROMNEFT HYDRAULIC HVLP**  
ISO VG — 10, 15, 22, 32, 46, 68

Gazpromneft Hydraulic HVLP series of high-performance hydraulic oils are designed for use in hydraulic systems and drives of stationary and mobile equipment operating in a wide temperature range outdoors and indoors. Recommended for use in road, marine, construction equipment at multigrade operation as well as in high precision machine tools, control systems requiring oils with minimum viscosity change depending on the temperature. Oils of Gazpromneft Hydraulic HVLP series are based on high-quality base oils and specially selected additive composition that give good low-temperature, anti-corrosion, deaerating and demulsifying properties, excellent antiwear and antioxidation properties.

**Approvals/compliances:**

Denison HF0,1,2 (ISO 32, ISO 46); Cincinnati Machine P-68 (ISO 32); Cincinnati Machine P-70 (ISO 46); Eaton Vickers 35VQ25; Bosch Rexroth 90220; DIN 51524 Part 3.



**GAZPROMNEFT HYDRAULIC HZF**  
ISO VG — 32, 46, 68

Series of zinc-free hydraulic oils designed for use in hydraulic systems for heavy-duty industrial and machine tools including machines with NC (Numerical Control), injection molding machines, mobile machinery and sea vessels operating under conditions of high temperature and pressure. Can be applied to hydraulic systems equipped with different types of high-performance pumps. Can be used in the systems containing servovalves with small gaps where deposit accumulation is not allowed. Produced on basis of mineral highly refined base oils and specially selected additives that provide high thermal and hydrolytic stability, good demulsifying and anti-corrosion properties, unique filterability.

**Approvals/meet requirements:**

DIN 51524 part 2; Denison HF-0; Cincinnati Machine P-68, P-69 & P-70; Eaton Vickers 35VQ25; Bosch Rexroth 90220.

Typical characteristics	Gazpromneft Hydraulic HLP				Gazpromneft Hydraulic HVLP						Gazpromneft Hydraulic HZF		
	32	46	68	100	10	15	22	32	46	68	32	46	68
Kinematic viscosity:													
at 40 °C, mm <sup>2</sup> /s	32	46	68	100	10	15	22	32	46	68	32	46	68
at 100 °C, mm <sup>2</sup> /s	5,5	6,7	8,7	10,3	3,4	3,9	5,5	6,4	7,8		5,51	6,7	8,44
at -40 °C, mm <sup>2</sup> /s					1100								
at -30 °C, mm <sup>2</sup> /s						900							
at -20 °C, mm <sup>2</sup> /s							1100	1600					
at -10 °C, mm <sup>2</sup> /s									1300				
Viscosity index	101	98	97	92	167	150	145	145	145	141			
Flash-point in open cup, °C	221	228	229	227	155	160	175	190	200	221	205	212	225
Pour point, °C	-41	-34	-34	-30	-61	-59	-51	-49	-45	-38	-46	-40	-37
Contamination class, not higher	10	10	10	10	12	12	12	12	12	12			
Acid number, mg KOH/g	0,7	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,14	0,13	0,12
Ash content, %	0,12	0,12	0,13	0,13									
Density at 20 °C, g/sm <sup>3</sup>	872	881	882	887	820	840	865	870	880	880	874	879	888
Copper corrosion, 3h at 100 °C	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B
Colour on CNT colorimeter, ea CNT													



**GAZPROMNEFT HYDRAULIC HLPD**  
ISO VG — 32, 46, 68

Series of high-quality hydraulic oils based on mineral deep selectively cleared base oils and carefully selected, balanced, multifunctional additive package tended to reduce the wear, ensure cleaning effect in hydrosystem and maintain dirt particles in finely dispersed suspension state. Compared with the production of HLP level it contains additives of DD type (detergent-dispersant) able to transfer oxidation products and contaminants into the form of fine dispersions, suspensions and emulsions.

**Approvals/compliances:**

DIN 51524 Part 2 excluding emulsifying properties index of ASTM D 1401 (these figures are normalized according to DIN for oils of HLP level and not applicable for oils of HLPD level).



**GAZPROMNEFT HYDRAULIC**  
ISO VG — 32, 46, 68, 100

Designed for use in hydraulic systems in the industrial equipment operating in the ordinary and harsh modes requiring alloy oils with improved filterability and enhanced level of performance properties. Based on deep selectively cleared mineral oils with additive package that ensures performance properties exceeding level of requirements for IGP (IGS) oil series. When delivered in their original packaging, purity grade is not less than grade 12 according to GOST 17216. Improved filterability allows to use in hydraulic system filters with cell size 4-6 mkm.

**Approvals/meet requirements:**  
DIN 51524 Part 2.



**GAZPROMNEFT IGP**  
ISO VG — 18, 30, 38, 49, 72, 114, 152, 182

Applied as service fluid for hydraulic systems in machines, presses, automatic lines, for lubrication of high speed transmissions, lightly and medium loaded reducers and worm drives, variators, electromagnetic and gear clutches, bearing units, rolling and sliding bearing and other machinery requiring oils with enhanced antioxidation and antiwear properties. Lubricants are produced of deep selectively cleared mineral oils with balanced additive composition.

**Approvals/meet requirements:**

Approved by SvNIINP;  
Produced by (according to) TU 0253-053-00151911-2008.

Gazpromneft Hydraulic HLPD			Gazpromneft Hydraulic				IGP							
32	46	68	32	46	68	100	18	30	38	49	72	114	152	182
32	46	68	32	46	68	100	27,0	44,5	58,8	81,2	119,3	186-205		335
5,2	6,6	8,4												
95	95	95	90	90	90	90	90	90	90	92	90	90		90
216	222	236	210	220	225	230	220	232	238	237	244	230		243
-23	-21	-19	-18	-15	-15	-15	-19	-19	-19	-19	-21	-15		-19
12	12	12	0,6	0,6	0,6	0,6	0,7	0,7	0,7	0,8				
0,32	0,32	0,32									0,7	1,0		0,7
			0,15	0,15	0,15	0,15	0,12	0,12	0,12	0,13	0,12	0,2		0,13
871	876	881	877	881	885	893	0,875	0,884	0,887	0,885	0,893	0,900		0,9
1B	1B	1B	1B	1B	1B	1B								
							1,5	1,5	2,5	3	5,5	7,0		8,0



### G-SPECIAL HYDRAULIC HVL PD 46

Multigrade hydraulic oil with enhanced dispersant and emulsifying properties. Designed for hydraulic systems and drives installed on stationary and mobile equipment (mainly on agriculture and quarry equipment, and road construction machines and other machinery) in a wide temperature range. Based on deep selectively cleared mineral base oils and carefully selected multifunctional additive package. Excellent dispersant and emulsifying properties. Prevents deposit formation caused by the system breakdown. Prevents solid particles and liquid contaminants settling and tar formation on cylinder and valves. Due to the high viscosity index the oil has perfect low and high temperature properties that allow to use the equipment in a wide range of operating temperatures. The use of extreme pressure component as a part of additive package allows to enhance the service life of the equipment. Chemical additive adsorption on the metal surfaces prevents metal-to-metal contact. The oil is compatible with various metals, it ensures the reliability of the machinery operation.

#### Approvals/meet requirements:

DIN 51524 Part 3; Denison HF0,1,2 (ISO 32, ISO 46); Cincinnati Machine P-68 (ISO 32); Cincinnati Machine P-70 (ISO 46); Eaton Vickers 35VQ25 (ISO 32, ISO 46); Bosch Rexroth 90220 (ISO 32, ISO 46).



### G-SPECIAL HYDRAULIC NORD 32

Hydraulic oil produced with use of synthetic base oils (polyalphaolefins), high-performance additive package and innovative viscosity modifier. Specially developed for operation at extremely low ambient temperature. Designed for hydraulic systems and drives of stationary and mobile equipment (trucks, buses, industrial tractors, road construction machinery and other equipment). Applied for hydraulic systems typically with very low starting temperatures and high operating temperatures.

#### Approvals/compliances:

DIN 51524 Part 3; Denison HF0,1,2 (ISO 32, ISO 46); Cincinnati Machine P-68 (ISO 32); Cincinnati Machine P-70 (ISO 46); Eaton Vickers 35VQ25 (ISO 32, ISO 46); Bosch Rexroth 90220 (ISO 32, ISO 46).

Typical characteristics	Method	G-Special Hydraulic HVL PD 46	G-Special Hydraulic Nord 32
Kinematic viscosity at 40 °C, mm <sup>2</sup> /s	ASTM D 445	46	30,1
Kinematic viscosity at 100 °C, mm <sup>2</sup> /s	ASTM D 445	-	8,9
Viscosity index	ASTM D 2270	150	314
Flash-point in open cup, °C	ASTM D 92	210	141
Pour point, °C	ASTM D 97	-45	-62
Density at 20 °C, g/sm <sup>3</sup>	ASTM D 1298	890	-





**GAZPROMNEFT REDUCTOR F**  
ISO VG — 150, 220, 320, 460

Developed in accordance with the latest Rev.13 specification requirements of Siemens AG division for use in Flender reducers with helical, bevel, planetary gears. Based on high-quality base oils and high-performance multifunctional additive package. Due to the balanced base oil and additive composition oils of this series ensure high resistance to oxidation, loads at contact pattern and surface micropitting. Oils of Gazpromneft Reductor F series are compatible with the most common seal materials used in reducers. The use of Gazpromneft Reductor F allows to reduce the range of reductor oils used by consumers.

**Approvals/meet requirements:**

FLENDER Rev.13 license No. A-GP-2012081; DIN 51517 Part 3 (CLP).



**GAZPROMNEFT REDUCTOR WS**  
ISO VG — 100, 150, 220

Multigrade reductor oil series meeting the high requirements of industrial reducers manufacturers. Based on high-quality mineral oils with multifunctional additive package. Enhanced low-temperature properties and excellent antipitting, lubricating, demulsifying, antifoaming properties. Reductor oils are designed to reduce friction of mating surfaces, heat transfer and wear products against rubbing surfaces of gears and bearings. Protects against tear, wear, rusting and work surfaces pitting of gear and worm transmissions. Thereby increase service life and ensure trouble-free reductor operation in a wide range of loads and temperatures. Works as seal preventing dust and water ingestion into the reductor.

The use of Gazpromneft reductor WS ensures maximum possible service life of industrial equipment.

**Approvals/compliances:**

DIN 51517 Part 3.

Typical characteristics	Gazpromneft Reductor F				Gazpromneft Reductor WS		
	150	220	320	460	100	150	220
ISO viscosity grade	150	220	320	460	100	150	220
Kinematic viscosity at 40 °C, mm <sup>2</sup> /s	150	220	320	460	100	150	220
Viscosity index	90	90	90	90	90	90	90
Open flash-point, °C	242	246	250	253	210	210	210
Pour point, °C	-18	-15	-15	-15	-35	-30	-25
Acid number, mg KOH/g					1,0	1,0	1,0
Colour	3,0	3,5	4,5	5,5	3,5	4,0	4,5
Density at 20 °C, g/sm <sup>3</sup>	0,895	0,898	0,9	0,903			



### GAZPROMNEFT REDUCTOR CLP ISO VG — 68, 100, 150, 220, 320, 460, 680

Developed for use in gear of industrial machinery with requirement for use high-quality alloy oils with increased antipitting, antiwear, anticorrosion properties. Can be also used in circulation systems of various machines operating under heavy loads, in friction units of automatic hot stamping presses and other heavy-duty units of industrial equipment. Produced with high-performance additive package that prevents corrosion of part and significantly enhances lubricating, demulsifying, antifoaming properties. Allows to reduce reductor oil range used by consumer.

**Approvals/compliances:**  
Cincinnati Machine P-77, P-74; DIN 51517 Part 3, AGMA 9005-E02, AIST 224, David Brown S1.53.101[E].



### GAZPROMNEFT REDUCTOR ITD ISO VG — 68, 100, 150, 220, 320, 460, 680

Designed for lubrication of gears in industrial equipment operating under medium and high loads including shock loads. Can be applied in friction units of hot stamping presses, circulation systems of various machines operating under high loads and other heavy-loaded tlments of industrial equipment. Produced on the basis of highly-purified mineral base oils with multifunctional additive package that enables to improve lubricating, antioxidation, anticorrosion, antiwear and extreme pressure properties.

**Approvals/meet requirements:**  
DIN 51517 Part 3

Typical characteristics	Gazpromneft Reductor CLP							Gazpromneft Reductor ITD						
	68	100	150	220	320	460	680	68	100	150	220	320	460	680
ISO viscosity grade	68	100	150	220	320	460	680	68	100	150	220	320	460	680
Kinematic viscosity at 40 °C, mm <sup>2</sup> /s	68	100	150	220	320	460	680	68	100	150	220	320	460	680
Viscosity index	90	90	90	90	90	90	85	90	90	90	90	90	90	85
Flash-point in open cup, °C	228	232	236	246	250	253	260	230	239	242	246	250	253	260
Pour point, °C	-18	-18	-18	-15	-15	-15	-15	-18	-18	-18	-15	-15	-15	-15
Acid number, mg KOH/g	0,64	0,64	0,64	0,64	0,64	0,64	0,64	0,45	0,45	0,45	0,45	0,45	0,45	0,45
Tribological characteristics: • load wear index (LWI), H • wear scar diameter (WSD), mm	521 0,3	521 0,3	521 0,3	521 0,3	521 0,3	521 0,3	521 0,3	480 0,3	480 0,3	480 0,3	480 0,3	480 0,3	480 0,3	480 0,3
Orrosion tests on copper plates at 100 °C during 3h, points	1B	1B	1B	1B	1B	1B	1B							
Colour	2,5	3,0	3,0	3,5	4,5	5,5	6,0	2,5	3,0	3,0	3,5	4,5	5,5	6,0
Density at 20 °C, g/sm <sup>3</sup>	0,885	0,893	0,895	0,898	0,9	0,903	0,907	0,885	0,893	0,895	0,898	0,9	0,903	0,907



## GAZPROMNEFT COMPRESSOR S SYNTH ISO VG – 46, 68, 100, 150

Series of semisynthetic ash-free compressor oils providing high-performance characteristics that meet requirements of major equipment manufacturers, and in most cases exceed the requirements of compressor equipment manufacturers. Oils of Gazpromneft Compressor S Synth series are designed for modern air compressors of mobile and stationary type with air temperature at compression stroke up to 220 °C. Gazpromneft Compressor S Synth - 100, 150 are recommended for use in piston compressors, Gazpromneft Compressor S Synth - 46, 68 are recommended for use in rotary (screw and vane) compressors operating in the chemical, construction, food and engineering and other industries.

**Approvals/compliances:**  
DIN 51506 VDL

## GAZPROMNEFT COMPRESSOR OIL ISO VG – 46, 68, 100, 150, 220

Series of compressor oils providing high performance characteristics compliant with the requirements of major equipment manufacturers. Oils of Gazpromneft Compressor Oil series are designed for air compressors of mobile and stationary types. Recommended for use in stationary compressors with end compression temperature up to 160°C and in compressors installed on vehicles with compression and discharge temperatures up to 220°C. Gazpromneft Compressor Oil - 46, 68 is used for lubrication of rotary (screw and vane) compressors, Gazpromneft Compressor Oils - 100, 150, 220 are used for reciprocating compressor lubrication.

**Approvals/compliances:**  
DIN 51506 VCL; UKZ

## KS-19P (A)

Oil designed for lubrication of medium and high pressure reciprocating compressors, blowers and rotary compressors operating in various industries and transport where the equipment manufacturer prescribed to use the oil of this viscosity grade. It is also recommended for singlestage and multistage compressors that compress the air and/or other oil-soluble gases. The use high-quality base oils ensures high performance characteristics of a product.

**Approvals/meet requirements:**  
TU 38.401-58-243-99

Typical characteristics	Gazpromneft Compressor S Synth				Gazpromneft Compressor Oil					KS-19p (A)
	46	68	100	150	46	68	100	150	220	
ISO viscosity grade	46	68	100	150	46	68	100	150	220	
Kinematic viscosity at 40 °C, mm <sup>2</sup> /s	46	68	100	150	46	68	100	150	220	24,1
at 100 °C, mm <sup>2</sup> /s	6,9	9,5	11,5	14,7	6,7	8,8	11,9	14,5	22,3	
Viscosity index	111	111	108	102	98	98	97	95	93	86
Self-ignition temperature, °C	374	376	382	388	374	376	382	388	389	
Flash-point in open cup, °C	225	231	234	242	229	234	234	235	260	272
Pour point, °C	-43	-39	-35	-29	-15	-15	-15	-15	-15	-19
Acid number, mg KOH/g	0,11	0,11	0,2	0,2	0,14	0,16	0,17	0,17	0,19	0,015
Density at 20 °C, g/sm <sup>3</sup>	861	867	870	874	875	880	884	887	892	899

### GAZPROMNEFT SLIDE WAY 68, 220

Designed for use in modern metalworking machines, injection molding machines and other equipment requiring oils with enhanced antishock and antiwear properties. Gazpromneft Slide Way 68 oil is designed for the horizontal slideways lubrication and Gazpromneft Slide Way 220 is designed for the vertical slideways lubrication. Can be used in hydraulic systems and reducers in industrial equipment where viscosity grades ISO VG 68, 220 are recommended. Produced on high-quality mineral base with functional additive composition compliant with the requirements of world's equipment manufacturers. Oils of Gazpromneft Slide Way 68, 220 series are resistant to oxidation, has good filterability that helps to maintain steady fluid stream in the system.


**Approvals/compliances:**

Cincinnati Machine P-47, P-50, DIN 51524 Part 2, DIN 51517 Part 3.

Typical characteristics	Gazpromneft Slide Way	
	68	220
ISO viscosity grade	68	220
Kinematic viscosity at 40 °C, mm <sup>2</sup> /s	68	220
Viscosity index	90	90
Flash-point in open cup, °C	215	235
Pour point, °C	-23	-20
Acid number, mg KOH/g	0,46	0,47
Density at 20 °C, kg/sm <sup>3</sup>	888	900
Colour on CNT colorimeter, ea CNT	2,0	3,5

### GAZPROMNEFT THERMOIL

Quenching oil series designed for use in metal heat treating processes where technology involves the use of oils with high level of performance properties. Oils of Gazpromneft Thermoil series are designed for cold (20–50 °C) and hot (70–110 °C) quenching. Applicable for heat treatment of large/outsize parts or the quenching of whole lot of parts; for parts where it is necessary to eliminate the danger of surface warp.

**Approvals/compliances:**

AVTOVAZ



Typical characteristics	Gazpromneft Thermoil	
	16	26
ISO viscosity grade	16	26
Kinematic viscosity at 40 °C, mm <sup>2</sup> /s	25	38
Viscosity index	90	91
Flash-point in open cup, °C	214	218
Flash-point in closed cup, °C	192	216
Ash content, %	0,07	0,07
Saponification number, mg KOH/g	0,25	0,25
Density at 20 °C, kg/m <sup>3</sup>	864	873





## GAZPROMNEFT INDUSTRIAL 40

Multipurpose industrial oil produced on the basis of purified distillate base oil with additive package that ensures good antioxidation, antiwear and demulsifying properties. Gazpromneft Industrial 40 reduces friction and wear of industrial equipment parts, effectively removes heat from friction units, protects parts against corrosion, cleans the dirt from surfaces, works as sealing means, good filterability. Gazpromneft Industrial 40 is recommended for use as in hydraulic systems of machine tool, press and other equipment, as in lightly loaded reducers, slideways (without requirements to antishock properties). Gazpromneft Industrial 40 is developed to replace outdated GOST level lubricants without additives and unable to ensure optimum operating modes and reliability of the equipment.

**Approvals/meet requirements:**  
DIN 51524 Part 2



## I-12, I-12A, I-20A, I-40A, I-50A

Additive-free industrial oils. Designed for use in machines and mechanisms of industrial equipment which operating conditions do not have special requirements to antioxidation and anticorrosion oil properties.

Designation of GOST 17479.4-87 meets I-LG-A-15.

**Approvals/compliances:**

GOST 17479.4-87:

I-LG-A-15  
I-G-A-32  
I-G-A-68  
I-GT-A-100

Typical characteristics	Gazpromneft Industrial 40
Kinematic viscosity at 40 °C, mm <sup>2</sup> /s	65
Flash-point in open cup, °C	226
Pour point, °C	-15
Acid number, mg KOH/g	1,0
Colour	2,0
Copper corrosion, 3h at 100 °C	1B
Contamination class	12

Typical characteristics	Gazpromneft I				
	I-12	I-12A	I-20A	I-40A	I-50A
Kinematic viscosity at 40 °C, mm <sup>2</sup> /s	20,3	15,3	31,6	65,3	94,7
Flash-point in open cup, °C	202	180	222	236	240
Pour point, °C	-27	-15 / -10*	-17	-16	-16
Acid number, mg KOH/g	0,01	no	0,01	0,01	0,01
Ash content, %	0,005	0,002	0,005	0,005	0,005
Density at 20 °C, g/sm <sup>3</sup>	0,869	0,858	0,878	0,881	0,890
Colour on CNT colorimeter, ea CNT	1,0	0,5	1,0	2,0	3,5

\*On agreement with the consumer it is allowed to produce industrial oils with pour point not higher than -10 °C in the period from April 1st till September 1st.

**GAZPROMNEFT  
STEELGREASE CS 1, 2**

**Waterproof, high-temperature grease for extremely high loads based on calcium sulfonate.**

Specialized repellent grease based on calcium sulfonate for friction operating under high temperatures and extremely high loads. Designed mainly to lubricate bearings of continuous casting plants, hot rolling and other equipment of metallurgical complexes. It is also used in other industrial equipment units with frequent contact with water. Can be used as multipurpose grease (NLGI2) and for central lubrication system (NLGI1).

**Properties and performance characteristics:**

Excellent performance characteristics in a wide temperature range from -30 °C to +200 °C. Due to the unique antiwear and extreme pressure properties excellently withstands extremely high loads.

Perfect protection against oxidation and corrosion due to the unique properties of the thickener — calcium sulfonate.

High water resistance — even at large water amount infusion, consistency changes slightly.

**Grades NLGI: 1 (CS 1), 2 (CS 2)**

**Approvals/specifications:**  
DIN 51502 - KP 2 S-30



Typical Properties	Method	Gazpromneft Steelgrease CS 1	Gazpromneft Steelgrease CS 2	Gazpromneft Grease L 2	Gazpromneft Grease L EP 00	Gazpromneft Grease L EP 0	Gazpromneft Grease L EP 1
Compliance with standard	<b>DIN 51502</b>	KP 1 S-30	KP 2 S-30	K 2 K-30	KP 00 K-30	KP 0 K-30	KP 1 K-30
NLGI Classification	<b>ASTM D 217</b>	1	2	2	00	0	1
Temperature Range, °C		from -30 to +200	from -30 to +200	from -30 to +120	from -30 to +120	from -30 to +120	from -30 to +120
Color	<b>Visual</b>	Brown	Brown	Light Brown	Brown	Brown	Brown
Thickener Type		Calcium sulfonate	Calcium sulfonate	Lithium Soap	Lithium Soap	Lithium Soap	Lithium Soap
Dropping Point, °C	<b>ASTM D 566</b>	>300	>300	>190	>170	>170	>180
Base oil		Mineral	Mineral	Mineral	Mineral	Mineral	Mineral
Four-Ball Load Test, Weld Point, N	<b>ASTM D 2596 DIN 51350 4</b>	4000	4000	1 600	2400	2400	2400
Four-Ball Wear, Scar, mm	<b>ASTM D 2266 DIN 51350 5</b>	0,5	0,5	0,5	0,5	0,5	0,5
Copper Corrosion, 24h/120°C	<b>DIN 51811</b>	1A	1A	1B	1A	1A	1A

## GAZPROMNEFT GREASE L 2

Multifunctional general purpose lithium grease  
**Operating temperature range: from -30°C to 120°C**  
**NLGI grades: 00, 0, 1, 2, 3**

**Approvals/specifications:**  
 DIN 51502 – K 2 K-30

## GAZPROMNEFT GREASE L MOLY EP 2

Multifunctional lithium grease containing extreme pressure additives (EP-additives) and solid filler (molybdenum disulfide).  
**Operating temperature range: from -30°C to 120°C**  
**NLGI grades: 2**

**Approvals/specifications:**  
 DIN 51502 – KPF 2 K-30

## GAZPROMNEFT GREASE LTS 1, 2

Multifunctional grease with extreme pressure additives (EP-additives) content based on lithium-calcium soap.  
**Operating temperature range: from -30°C to 120°C**  
**NLGI grades: 2**

**Approvals/specifications:**  
 DIN 51502 – KP 2 K -30

## GAZPROMNEFT GREASE LTS MOLY EP 2

Grease with high performance scores based on lithium-calcium soap containing extreme pressure additives (EP-additives) and solid filler (molybdenum disulfide).  
**Operating temperature range: from -30°C to 120°C**  
**NLGI grades: 00, 0, 1, 2, 3**

**Approvals/specifications:**  
 DIN 51502 – KPF 2 K-30

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

Multifunctional general purpose lithium grease with extreme pressure additives (EP-additives) content.  
**Operating temperature range: from -30°C to 120°C**  
**Briefly up to +150°C**  
**NLGI grades: 00, 0, 1, 2, 3**

**Approvals/specifications:**  
 DIN 51502 – KP 2 K-30

## GAZPROMNEFT METALGREASE AC

Bentonite grease for extra high loads, high temperatures and heavy-duty.  
**Operating temperature range: from -30°C to 200°C**  
**NLGI grades: 2**

**Approvals/specifications:**  
 DIN 51502 – KPF 2 S-30

## GAZPROMNEFT GREASE LX EP 2

High-temperature grease with extreme pressure additive package (EP-additives) based on lithium complex oils.  
**Operating temperature range: from -30°C to 160°C**  
**NLGI grades: 2**

**Approvals/specifications:**  
 DIN 51502 – KP 2 P -30

## GAZPROMNEFT GREASE SYNTH LX EP 2

Multipurpose grease based on synthetic base oil and lithium complex soap with extreme pressure additive package (EP-additives) for friction units operating under heavy loads.  
**Operating temperature range: from -50°C to 150°C**  
**NLGI grades: 2**

**Approvals/specifications:**  
 DIN 51502 – KPHC 2 N-50

Gazpromneft Grease L EP 2	Gazpromneft Grease L EP 3	Gazpromneft Grease L Moly EP 2	Gazpromneft Metalgrease AC	Gazpromneft Grease LTS 1	Gazpromneft Grease LTS 2	Gazpromneft Grease LTS Moly EP 2	Gazpromneft Grease LX EP 2	Gazpromneft Grease Synth LX EP 2
KP 2 K-30	KP 3 K-30	KPF 2 K-30	KPF 2S-30	KP 1 K-30	KP 2 K-30	KPF 2 K-30	KP 2 P-30	KPHC 2 N-50
2	3	2	2	1	2	2	2	2
from -30 to +120	from -30 to +120	from -30 to +120	from -30 to +200	from -30 to +120	from -30 to +120	from -30 to +120	from -30 to +160	from -50 to +150
Brown	Brown	Dark Grey	Copper Glaze	Dark Brown	Dark Brown	Dark Grey	Blue	Light-beige
Lithium Soap	Lithium Soap	Lithium Soap	Bentonite	Lithium-calcium soap	Lithium-calcium soap	Lithium-calcium soap	Lithium complex soap	Lithium complex soap
>190	>190	>190	No	>190	>190	>190	>250	>250
Mineral	Mineral	Mineral	Mineral	Mineral	Mineral	Mineral	Mineral	Synthetic
2400	2400	2800	3200	2600	2600	3600	2800	2600
0,5	0,5	0,4	0,4	0,5	0,5	0,4	0,4	
1A	1A	1A	1A	1A	1A	1A	1A	



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