ASSORTMENT OF LUBRICANTS

GAZPROM NEFT / GAZPROMNEFT LUBRICANTS

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GAZPROM NEFT / GAZPROMNEFT LUBRICANTS

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

4 SALES OFFICES IN RUSSIA, BELARUS AND KAZAKHSTAN

4 PRODUCTION SITES

№ 17 IN THE WORLD

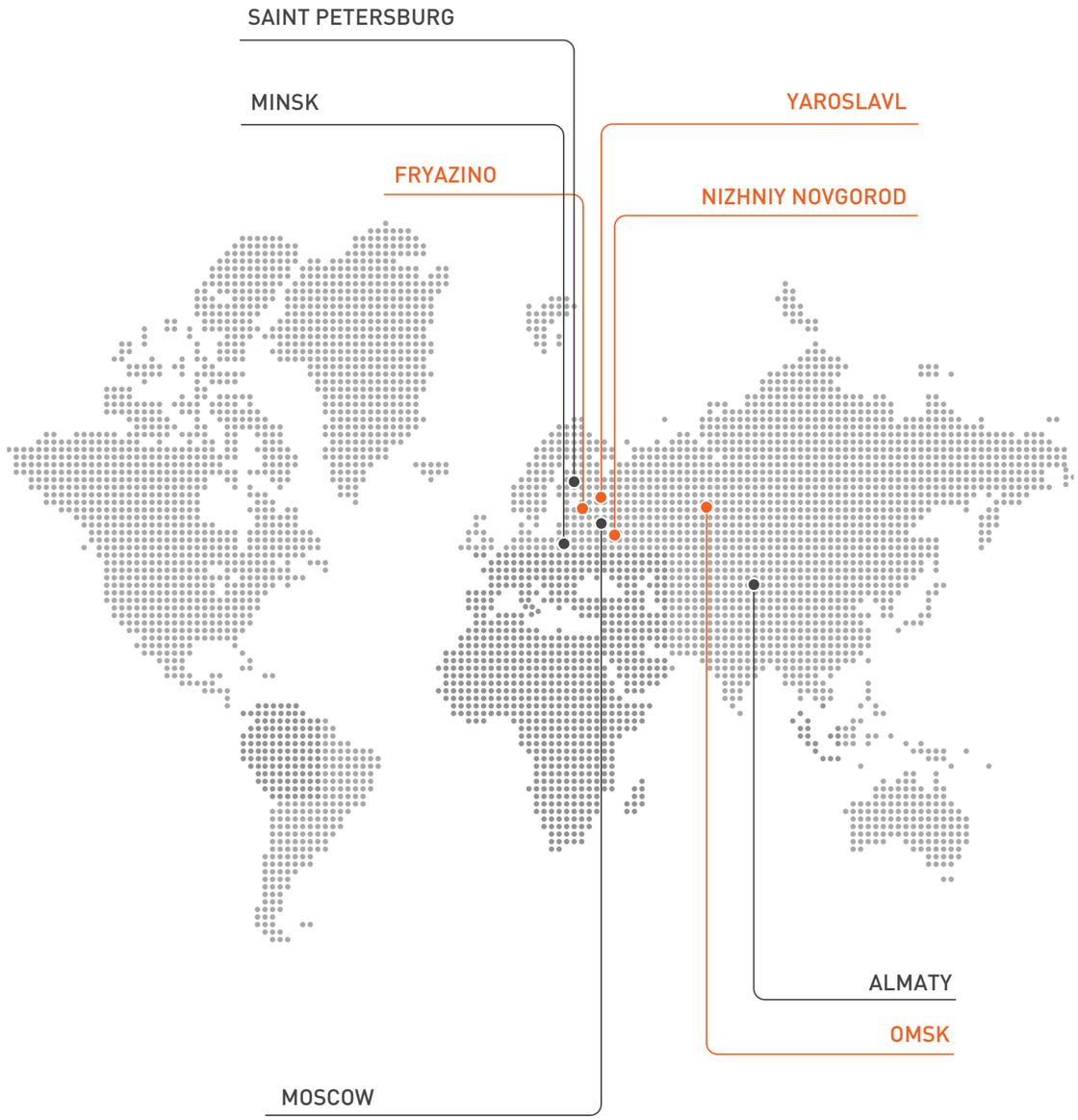
№ 1 IN RUSSIA

№ 2 IN BELARUS

№ 1 IN KAZAKHSTAN

>80 COUNTRIES — GEOGRAPHY OF SUPPLIES

OVER **530** THOUSAND TONS — OF OILS, GREASES AND TECHNICAL FLUIDS PER YEAR



Production sites Sales offices

BUSINESS

- Own production of synthetic and mineral base oils (groups I, II, III and V according to API)
- Own production of additives
- International network of service stations G-Energy Service
- The company's management system and production assets meet the requirements of international standards

COMPANY'S SCALE

- More than 190 distributors
- More than 1000 products
- 1st place in the Russian marine oil market

SGS ISO 9001 · SGS ISO 45001 · SGS ISO 14001 · SGS IATF 16949

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

GAZPROM NEFT / GAZPROMNEFT LUBRICANTS

Trusted and used in more than 80 countries worldwide

Gazpromneft oils are trusted all over the world: customers in more than 80 countries have made their choice in favor of reliability and quality. The characteristics of the oils meet the requirements of professionals in many countries on all continents, ensuring confident operation of automotive machinery and equipment.

For all segments and sectors of the economy

Full range of products and services for all types of enterprises, types of machinery and equipment. More than 1000 items of oils, greases, cooling and technical fluids, lubricating and cooling fluids for metalworking.

Strategic partnership with major global manufacturers of automotive machinery and industrial equipment

Gazpromneft oils are developed in cooperation with major machinery manufacturers, supplied to OEMs and subjected to heavy testing in the field, on test benches and in independent laboratories.

Special polymers - engine protection and reliability

Special polymer additives in Gazpromneft oils enhance the most important characteristics - the protective function of the oil and long-term viscosity stability due to the strength of the oil film and high resistance to degradation. In combination with high quality base oils, polymer additives increase the oil life and extend its service life.

Quality assurance: control from raw material extraction, processing, production to offering to customer

Control over the entire cycle "oil production - refining - formulation development - production of finished oils - offering to the customer - authentication" guarantees consistent high quality of products. The unique system of authenticity check is a guarantee of purchase of original quality products, an opportunity to make sure of the authenticity of the oil before filling the engine. All products have certificates confirming the declared characteristics.

ENGINE OILS FOR PASSENGER AND COMMERCIAL VEHICLES

ENGINE OILS FOR PASSENGER AND COMMERCIAL VEHICLES

Product Name	Description	Specifications*
Gazpromneft Premium C3 5W-30	Fully synthetic energy-saving low SAPS engine oil designed for maximum protection of modern high-force gasoline and diesel engines of passenger cars operating in various operating conditions. Fully compatible with all emission reduction systems: DPF, TWC, EGR, SCR.	ACEA C=2, C3 API SP BMW Longlife-04 Iveco 18-1811 SC1 MB 229.51/229.52 Opel-Vauxhall OV0401547 VW 505 00/505 01
Gazpromneft Premium C3 5W-40	Fully synthetic low SAPS engine oil designed for maximum protection of modern high-force gasoline and diesel engines of passenger cars operating in various operating conditions. Fully compatible with all emission reduction systems: DPF, TWC, EGR, SCR.	ACEA C3 API SP Fiat 9.55535-S2 Ford WSS-M2C917-A MB 229.31 VW 505 00/505 01
Gazpromneft Premium JK 0W-16**	Synthetic energy-saving engine oil for gasoline and hybrid engines of modern cars (including plug-in hybrid propulsion system) where SAE 0W-16 viscosity grade oils are required. Provides excellent fuel economy and maximizes engine efficiency due to its reduced viscosity grade and low high-temperature viscosity under high shear rate conditions (HTHS≥2.3 mPa*C).	API SP ILSAC GF-6B
Gazpromneft Premium JK 0W-20** 5W-20** 5W-30	Synthetic energy-saving engine oils for gasoline engines of modern Japanese, Korean and Asian cars. Fully meet the requirements of Asian manufacturers.	API SP ILSAC GF-6A Chrysler MS-6395 Fiat 9.55535-CR1 Ford WSS-M2C-929-A
Gazpromneft Premium P 5W-40	Fully synthetic high ash engine oil designed for maximum protection of modern high-force gasoline and diesel engines of passenger cars operating in various operating conditions. The oil provides outstanding anti-wear properties, excellent protection against high-temperature deposits and sludge formations, protects engines with direct fuel injection system (GDI/ TGDI) against premature ignition of LSPI fuel.	ACEA A3/B4 API SP, CF BMW Longlife-01 (< 2019 m.y.) MB 226.5/229.3/229.5 Renault RN700/RN710 VW 502 00/505 00
Gazpromneft Premium N 5W-40	Synthetic engine oil for modern gasoline and diesel engines of passenger cars, SUVs and light commercial vehicles of European and Russian manufacturers.	ACEA A3/B4 API SL/CF MB 229.3 Renault RN700/RN710 VW 502 00/505 00 UMZ JSC AVTOVAZ JSC
Gazpromneft Premium N 20W-50**	Semi-synthetic engine oil designed for gasoline and diesel engines of cars operated in regions with hot climate.	API SN
Gazpromneft Premium A3 5W-30	Synthetic engine oil designed for use in gasoline and diesel engines of passenger cars, minibuses and light trucks of European manufacturers and Asian manufacturers of European assembly.	ACEA A3/B4 API SL, CF BMW Longlife-01 (< 2019 m.y.) MB 229.3Renault RN700/ RN710VW 502 00/505 00
Gazpromneft Premium A5/B5 5W-30	Synthetic energy-saving engine oil designed for maximum protection of gasoline and diesel engines of modern European and Asian cars. The combination of polymer molecules and antifriction components allows fuel economy.	ACEA A5/B5 API SL/CF Ford WSS-M2C-913-B/C/D Renault RN0700
Gazpromneft Premium L 5W-30 5W-40 10W-30 10W-40 15W-40 20W-50	Semi-synthetic (SAE 5W-30, 5W-40, 10W-30, 10W-40) and mineral (SAE 15W-40, 20W-50) motor oils for gasoline and diesel engines with mileage from Russian and foreign manufacturers.	API SL/CF ACEA A3/B3 MB 229.1 VW 501 01/VW 505 00 UMZ JSC AVTOVAZ JSC
Gazpromneft Super 5W-30 5W-40 10W-30 10W-40 15W-40	Semi-synthetic (SAE 5W-30, 5W-40, 10W-40) and mineral (SAE 10W-30, 15W-40) engine oils for high-mileage gasoline and diesel engines of previous generations. Gazpromneft Super oils ensure reliable operation of the engine with mileage, preserving its service life.	API SG/CD AVTOVAZ JSC
Gazpromneft Standard 10W-40 15W-40 20W-50	Mineral engine oils for gasoline and diesel engines of previous generations with very high mileage. The introduction of anti-wear and detergent additives provides additional protection for the engine with mileage against wear and deposits.	API SF/CC AVTOVAZ JSC
Gazpromneft Ecogas 10W-40 15W-40**	Special motor oils designed for use in engines of passenger cars and light commercial vehicles operating on liquefied gas or liquid fuels. Applicable in engines operating on bi-fuel systems (gas-gasoline), in accordance with the recommendations of the equipment manufacturer.	API SL, CF

* specification information is for reference only, for a complete list of approvals and specifications please visit www.gazpromneft-oil.ru/en
** not available for the Russian Federation market

OILS FOR SMALL MACHINERY

Product Name	Description	Specifications*
Gazpromneft Moto 4T 10W-30 10W-40	Multigrade engine oils designed for use in four-stroke gasoline engines of motorcycles, scooters, mopeds etc. Compatible with motorcycles equipped with a multi-disc clutch in an oil bath ("wet" clutch). Superior to and replace engine oils of previous API classes (SJ, SG, SH, SF).	API SL JASO MA2
Gazpromneft Moto 4T 20W-50	Multigrade engine oil for use in four-stroke gasoline engines of motorcycles, scooters, mopeds and garden equipment (lawnmowers, cultivators, generators, motor pumps). Due to its optimal friction properties, Gazpromneft Moto 4T 20W-50 is compatible with engines equipped with a multi-plate clutch in an oil bath ("wet" clutch).	API SG JASO MA2
Gazpromneft Moto 4T 30	Seasonal (summer) engine oil designed for use in four-stroke gasoline and diesel engines of garden equipment - lawn mowers, cultivators, generators, motor pumps, etc.	API SG/CD
Gazpromneft Scooter 4T 10W-30 10W-40	A series of multigrade engine oils designed for use in four-stroke gasoline engines without "wet" multi-disc clutch of various motorcycles (scooters, mopeds, quads, etc.).	API SL JASO MB
Gazpromneft Moto 2T	Engine oil intended for use in two-stroke gasoline engines of vehicles (motorcycles, scooters, mopeds, snowmobiles), garden equipment (lawn mowers, cultivators, generators, motor pumps, snow blowers) and hand-held power tools.	JASO FB ISO-L-EGB

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CHAIN OIL

Product Name	Description
Gazpromneft Chain Oil	Special all-season oil designed for lubrication of saw chains, sprockets and guides (bars) of all types of electric and chain saws. It has good adhesion to metal, effectively lubricates and protects parts of the saw mechanism from deposits and corrosion.
Gazpromneft Chain Oil Nord	Chain oil with improved low-temperature properties, specially developed for regions where low-temperature oil fluidity and trouble-free operation of saws is important. Designed for use at sub-zero ambient temperatures.

FLUSHING OILS

Product Name	Description	Specifications*
Gazpromneft Promo **Gazpromneft MP Synthetic**	Service engine oils designed to flush the lubrication system of gasoline and diesel engines of passenger cars, commercial, special and off-road vehicles.	AVTOVAZ JSC

ENGINE OILS
FOR HEAVY-DUTY DIESEL ENGINES

Product Name	Description	Specifications*
Gazpromneft Diesel Ultra 5W-30 10W-40	Synthetic engine oils with a higher reserve of neutralizing properties, designed for use in heavy-duty diesel engines of commercial, special and off-road vehicles. Intended for the most modern high-force turbocharged diesel engines of European and American manufacturers of ecological class up to and including Euro-5 (without DPF). Recommended by Gazpromneft-Lubricants for vehicles requiring Scania LDF-3 properties.	API CI-4 ACEA E4/E7 Cummins CES20078 Deutz DQC IV Mack EO-N MAN M 3277 MB 228.5 MTU Cat. 3 Renault Trucks RLD-2 Volvo VDS-3 JSC Avtodiesel (YaMZ) JSC KAMAZ
Gazpromneft Diesel Ultra CS 10W-40	Synthetic engine oil developed specifically for use in modern diesel engines of American, European and Asian manufacturers operating under severe operating conditions. It is used in engines of ecological class up to and including Euro-5 and Euro-6, is compatible with exhaust gas treatment systems, including DPF, has high stability to oxidation in accordance with the requirements of API CK-4 standard. Superior to API CJ-4 oils and replaces them.	API CK-4/CJ-4 ACEA E7/E9 Caterpillar ECF-2/ECF-3 Cummins CES20081/86 DDC 93K222 Deutz DQC III-18LA JASO DH-2 MACK EOS-4,5 MAN M 3775/3575 MB 228.31 MTU Cat. 2.1 Renault Trucks RLD-3 Volvo VDS-4,5 JSC Avtodiesel (YaMZ) JSC KAMAZ
Gazpromneft Diesel Ultra LA 10W-40	Synthetic engine oil developed using Low SAPS technology for maximum protection of exhaust gas neutralization systems, including DPF. Designed for high-force turbocharged diesel engines of European and other manufacturers of Euro-5, 6 ecological class.	API CI-4 ACEA E6/E7/E9 Cummins CES20076/77 Deutz DQC–IV LA JASO DH-2 MACK E-ON MAN M 3477/3271–1 MB-Approval 228.51 MTU Cat. 3.1 Renault Trucks RLD-2 Volvo VDS-3 JSC Avtodiesel (YaMZ)
Gazpromneft Diesel Ultra Plus 10W-40	Multigrade engine oil developed on the basis of synthetic technologies specifically for use in heavy-duty engines of European vehicles, including MAN, MB and others. Involvement of synthetic base components in combination with improved neutralizing properties allows to maintain the performance of the oil for a longer interval than oils of ACEA E7 category. Corresponds to ACEA E4/E7 performance class and can be used in European vehicles of ecological class up to and including Euro-5 (without DPF).	API CI-4 ACEA E4/E7 Cummins CES20078 DDC 93K215 Global DHD-1 JASO DH-1 MACK E-ON MAN M 3277 MB-Approval 228.5 MTU Cat. 3 Renault Trucks RLD-2 Volvo VDS-3 ZF TE-ML 03A/05K/07D/21K
Gazpromneft Diesel Ultra 15W-40	Engine oil specially designed for use in heavy-duty engines of mining, construction, agricultural and other specialized machinery. Involvement of synthetic base components allows Gazpromneft DieselUltra 15W-40 to operate with an extended service life compared to standard oils of ACEA E7 and API CI-4 performance class. Improved reserve of neutralizing properties provides the possibility of extended drain interval and work with fuel of variable quality. Developed to meet the oil requirements of engine manufacturers Cummins, MTU, Volvo and others.	API CI-4 ACEA E4/E7 Cummins CES20078 DDC 93K215 Global DHD-1 JASO DH-1 Mack EO-N MTU Cat. 3 Renault Trucks RLD-2 Volvo VDS-3
Gazpromneft Diesel Premium 5W-40 10W-30 10W-40 15W-40	Multigrade universal universal semi-synthetic (SAE 5W-40, 10W-30,10W-40) and mineral (SAE 15W-40) engine oils for mixed transport fleets. Designed for modern powerful and heavy-duty diesel engines with turbocharging (and without) of European, American and Asian manufacturers. Developed for engines of ecological class up to Euro-4 and some engines Euro-5 inclusive, where the level of performance properties API CI-4, ACEA E7 is required. Replaces oils of API CH-4, CG-4, CF-4 groups.	API CI-4/SL ACEA E7 Caterpillar ECF-1a/2 Cummins CES20076/77/78 DDC 93K215 Deutz DQC III Global DHD-1 JASO DH-1 Mack EO-N /EO-M Plus MAN M 3275–1 MB-Approval 228.3 MTU Cat. 2 Renault Trucks RLD-2 Volvo VDS-3 JSC Avtodiesel (YaMZ) JSC KAMAZ JSC TMZ

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ENGINE OILS
FOR HEAVY-DUTY DIESEL ENGINES

Product Name	Description	Specifications*
Gazpromneft Diesel Prioritet 10W-30 10W-40 15W-40 20W-50	Semi-synthetic (SAE 10W-30, 10W-40) and mineral (SAE15W-40, 20W-50) engine oils for mixed transport fleets are designed for powerful and heavy-duty diesel engines of European and American equipment manufacturers. Developed for engines of ecological class up to Euro-3 inclusive, where the level of performance properties APICH-4 is required. Replaces oils of API CG-4, CF-4 groups.	API CH-4/SJ Cummins CES20076 MAN M 3275–1 MTU Cat. 2 Deutz DQC II-18 Volvo VDS-2 JSC Avtodiesel (YaMZ) JSC KAMAZ JSC TMZ
Gazpromneft Diesel Extra 10W-40 15W-40 20W-50 40 50	Semi-synthetic (SAE 10W-40) and mineral (SAE 15W-40,20W-50, 40, 50) engine oils for diesel engines of Euro-2 ecological class (or lower) of heavy-duty machinery, where API CF-4 performance level is required.	API CF-4/SG MAN 270 MB 228.0 JSC Avtodiesel(YaMZ) JSC KAMAZ JSC TMZ
Gazpromneft Turbo Universal 15W-40 20W-50	Semi-synthetic (SAE 10W-50) and mineral (SAE 15W-40, 20W-50) engine oils designed for use in turbocharged (or non-turbocharged) diesel engines complying with Euro-0 or Euro-1 environmental class. Gazpromneft TurboUniversal 15W-40 is specially designed for multigrade use instead of seasonal motor oils M-8DM, M-10DM, M-10G2k,M-10G2, M-8G2k, M-8G2.	API CD JSC Avtodiesel (YaMZ) JSC TMZ
Gazpromneft Diesel Sahara 20W-50	Engine oil for heavy-duty diesel engines turbocharged (and non-turbocharged), designed for use in hot climatic zones. Recommended for replacement of engine oils of API CF-4 class.	API CH-4 Cummins CES20076 MAN M 3275–1 MTU Cat.2
Gazpromneft HD 40 50 60	A series of summer engine oils designed for heavy-duty diesel engines of vehicles operating in hot climates.	API CC

ENGINE OILS
OF GOST GRADE

Product Name	Description	Specifications*
Diesel Turbo SAE20 (type M-8DM) **Gazpromneft M-10DM**	Engine oils designed for winter (Diesel TurboSAE20 (type M-8DM)) and summer (Gazpromneft M-10DM) operation of heavy duty turbocharged diesel engines of freight trucks, timber trucks, heavy-duty dump trucks, industrial tractors of domestic and imported production, operating in harsh conditions.	JSC Avtodiesel (YaMZ) API CD JSC TMZ
M-8G2 **M-10G2**	Engine oils designed for winter (M-8G2) and summer (M-10G2) use in automobile and tractor diesel engines without supercharging or with low supercharging. They can also be used for lubrication of high-speed stationary diesel engines and diesel generators.	API CC
M-8G2k **M-10G2k** **M-14G2(k)**	Engine oils designed for winter (M-8G2k) and summer (M-10G2k, M-14G2k) application in automobile and tractor diesel engines without supercharging or with low supercharging. They can also be used for lubrication of high-speed stationary diesel engines and diesel generators. They have a higher level of operational properties compared to oils of group G2.	API CC
M-8V **M-6Z/10V**	Universal multigrade engine oils designed for use in medium-force carbureted gasoline engines and naturally aspirated diesel engines of passenger cars and trucks ZIL, GAZ, UAZ. Recommended for use as winter oils for medium-force automotive tractor diesel engines.	API SD/CB
M-10V2	Engine oil intended for lubrication of naturally aspirated and medium-force automobile and tractor diesel engines during summer operation.	API CB
M-10G2CS **M-14G2CS** **M-16G2CS**	Oils intended for lubrication of main and auxiliary tronk diesel engines of marine transport, fishing and river fleet vessels. They can also be used for lubrication of a number of ship mechanisms and units, where oil of appropriate viscosity is required (gearboxes, compressors, blowers, etc.). M-10G2CS oil is used in circulation systems of crosshead diesel engines of heavy duty, as well as for lubrication of cylinders of tronic and crosshead diesel engines with lubricators, when the mass fraction of sulfur in the fuel used is not more than 1.5%.	API CC
M-14DCL30	Engine oil for main and auxiliary trunk-piston Diesel engines of marine transport, fishing and river fleet vessels. It is used for lubrication of medium-speed trunk-piston marine diesel engines with circulating or combined lubrication system when operating on heavy fuels with mass fraction of sulfur up to 3.5%. It has excellent moisture resistance and low emulsifiability with water, easily separates water. Conforms to SAE 40.	

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ENGINE OILS OF GOST GRADE

Product Name	Description	Specifications*
M-14V2	Engine oil designed for lubrication of two- and four-stroke diesel locomotive, marine and stationary diesel engines when operating on distillate diesel fuels with sulfur content up to 0.5% wt. %, as well as engines of haul truck.	API CB
M-14D2	Engine oil intended for use in diesel locomotive engines, as well as in heavy-duty diesel engines with supercharging of dump trucks, where API CD level oil is recommended. Compared to M-14G2TSS oil, it has a higher operational potential in terms of neutralizing ability, detergent properties, resistance to high-temperature oxidation, antiwear properties. Similar to imported oils of API CD category.	API CD MB 228.0 MAN 270 MTU Type 1 OJSC Kolomensky Zavod
Gazpromneft Motor Oil 40 50 60	A series of summer universal engine oils designed for use in gasoline and diesel engines of passenger cars operating in hot climates.	API SC/CA

AUTOMATIC TRANSMISSION FLUID (ATF)

Product Name	Description	Specifications*
Gazpromneft ATF DX III	Semi-synthetic transmission oil designed for use in automatic transmissions of passenger cars, commercial, special and off-road vehicles. Compared to mineral-based oils, it has improved low-temperature properties and longer service life.	GM DEXRON IIIH GM TASA Allison C-4 Caterpillar TO-2 Ford MERCON MAN 339 Type V1/Z1 MB 236.1/236.2/236.3/236.5/236.6/236.7/236.11 Voith H55.6335 Volvo CE 97340, 97341 ZF TE-ML 03D/04D/14A/17C/11B/21L
Gazpromneft ATF DX III Standard	Semi-synthetic transmission oil, designed for use in automatic transmissions of passenger cars, commercial, special and off-road vehicles. Due to the use of synthetic base component it has high stability to oxidation and perfectly protects mechanisms from formation of deposits. Compared to mineral-based oils, it has improved low-temperature properties and extended service life.	Allison C-4 Caterpillar TO-2 Ford MERCON GM DEXRON IIIH/IIIG
Gazpromneft ATF DX II	Transmission fluid designed for use in automatic transmissions of passenger cars, commercial, special and off-road vehicles.	GM DEXRON IID

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MANUAL TRANSMISSION FLUID, DIFFERENTIAL

Product Name	Description	Specifications*
Gazpromneft GL-4/GL-5 75W-90	Synthetic multigrade gear oil for universal use. Designed for operation in manual transmissions of passenger cars and commercial vehicles, transfer cases, drive axles with all types of gears. It is possible to increase the change interval in comparison with mineral and semi-synthetic base oils.	API GL-4/GL-5/MT-1 ZF TE-ML 02B/05A/12L/12N ZF TE-ML 16B/17B/19C/21A MAN 341 Type E2/Z2 MAN 342 Type M3 MIL-PRF-2105E SAE J2360 The product formulation has been confirmed to meet the requirements of Scania STO 1:0, STO 1:1 G
Gazpromneft GL-4 75W-85 75W-90 80W-85 80W-90 90 140	Synthetic (SAE 75W-80), semi-synthetic (SAE 75W-85,75W-90) and mineral (SAE 80W-85, 80W-90, 90, 140) gear oils for use in manual transmissions of passenger cars, trucks and off-road vehicles. Gazpromneft GL-4 90, 140 oils are designed specifically for regions with hot climates. Gazpromneft GL-4 75W-80, 75W-85, 75W-90 oils have improved low-temperature properties and longer service life compared to mineral-based oils.	API GL-4 BAIC ZF TE-ML 08 AVTOVAZ JSC
Gazpromneft GL-5 85W-140 140	Gear oils are designed for use in drive axles with any type of gearing, including hypoid gears, installed on trucks and off-road vehicles operating in severe operating conditions. The oils are specially developed for regions with hot climate. High load-bearing capacity of oils effectively prevents wear, scoring and destruction of gear working surfaces at elevated ambient temperatures.	API GL-5
Gazpromneft GL-5 75W-90 80W-90 90 **Gazpromneft Super T-3** 85W-90	Semi-synthetic (SAE 75W-90) and mineral (SAE 80W-90, 85W-90, 90) gear oils designed for use in transmission units subjected to high loads (main gear, drive axles), where API GL-5 performance level is required. Gazpromneft GL-5 90 has been specially developed for regions with hot climates. Gazpromneft GL-5 75W-90 has improved low-temperature properties and extended service life compared to mineral-based oils.	API GL-5 MAN 342 Type M1/M2 MB 235.0 MIL–L-2105D ZF TE-ML 07A/08 ZF TE ML 05A/12E/16B/16C/17B/19B/21A GAZ Automobile Plant

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TRANSMISSION OILS OF GOST GRADE

Product Name	Description	Specifications*
TSp-15k	Multigrade gear oil, one for the main transmission gearbox (two-stage gearbox with spur and spiral bevel gears) of KAMAZ vehicles and other trucks operating under moderately severe conditions. Maintains performance in transmission units at temperatures from -20 to +130 °C.	API GL-3 JSC Avtodiesel (YaMZ) JSC KAMAZ
Gazpromneft GL-1 90 140	Seasonal (summer) gear oils produced with high viscosity feedstock and antioxidant additive.	API GL-1

UTTO UNIVERSAL HYDRAULIC & TRANSMISSION FLUID

Product Name	Description	Specifications*
Gazpromneft UTTO 10W-30	Multigrade Universal Tractor Transmission Oil. It has high protection against wear, corrosion and rust, is stable against oxidation, and provides easy starting and reliable tractor operation in a wide range of temperatures. Gazpromneft UTTO 10W-30 has excellent anti-wear properties.	API GL-4 Allison C-4 Ford M2C-134-D/86-C/86-B John Deere JDM J20C Massey Ferguson CMS M1143/M1135 New Holland CNH MAT 3525

ANTIFREEZES

Product Name	Description	Specifications*
Gazpromneft Antifreeze SF12+	Gazpromneft Antifreeze SF12+ is an ethylene glycol-based coolant concentrate for use in internal combustion engines. Product varieties: Gazpromneft Antifreeze SF12+ 60 is a coolant with a freeze protection temperature of -50 ºC, a mixture of concentrate and water in the ratio of 60%:40% by volume. Gazpromneft Antifreeze SF12+ 40 is a coolant with a freezing protection temperature of -37 ºC, a mixture of concentrate and water in the ratio of 50%:50% by volume. Gazpromneft Antifreeze SF12+ Premix** is a coolant with a freeze protection temperature of -20 ºC, a mixture of concentrate and water in the ratio of 33%:67% by volume.	AFNOR NF R15–601 ASTM D3306/D4985 BS 6580 Ford WSS-M 97B44-D GM 6277M MAN 324 Typ SNF MB 325.3 MTU MTL 5048 Opel B040 1065 SAE J1034 VW TL-774 F (G12+) JSC Avtodiesel (YaMZ)
Gazpromneft Antifreeze Hybrid	Gazpromneft Antifreeze Hybrid is a coolant concentrate based on ethylene glycol, carboxylic acid salts and silicates (hybrid type). Suitable for use in Chinese cars in accordance with Chinese standard GB 29743. Product variety: Gazpromneft Antifreeze Hybrid 40 is a coolant with a freeze protection temperature of -37 ºC, a mixture of concentrate and water in the ratio of 50%:50% by volume.	Afnor R15-601 AS 2108-2004 ASTM D3306/D4985 Audi; BMW N 600 69.0 BS 6580-2010 CUNA NC 956-16 Deutz DQC CA-14 Ford GM B 040 0240 Iveco T18-1804 Classe T3 E4 MAN 324 NF; MB 325.0 MTU MTL 5048 ONORM V 5123 Porsche 924/928/944/968 Saab 6901599 SANS 1251:2005 China GB 29743 Volkswagen TL 774-C (G-11) Seat; Skoda Mitsubishi
Gazpromneft Antifreeze BS	Gazpromneft Antifreeze BS is a coolant concentrate based on ethylene glycol for use in internal combustion engines. Product varieties: Gazpromneft Antifreeze BS 40 - coolant with a freeze protection temperature of -37 ºC, a mixture of concentrate and water in the ratio of 50%:50% by volume. Gazpromneft Antifreeze (BS) Premix** - coolant with a freeze protection temperature of -20 ºC, a mixture of concentrate and water in the ratio of 33%:67% by volume.	ASTM D3306/D4985 GOST 33591–2015
Gazpromneft Antifreeze	Gazpromneft Antifreeze is an ethylene glycol-based coolant concentrate for use in internal combustion engines. Product varieties: Gazpromneft Antifreeze 40 - coolant with a freeze protection temperature of -37 ºC, a mixture of concentrate and water in the ratio of 50%:50% by volume. Gazpromneft Antifreeze Arctic - coolant with increased content of anti-cavitation additives, with a freezing protection temperature of -55 ºC, a mixture of concentrate and water in the ratio of 60%:40% by volume.	ASTM D6210/D3306/D4985 Case Corp. MS1710 Caterpillar Cummins CES14603 Detroit Diesel 7SE298 GM 6038M John Deere 8650–5 MACK Navistar Ford New Holland 9–86 Freightliner 48–22880 PACCAR SAE 1941 TMC RP329 Waukesha 4–1974D
Gazpromneft TOSOL	Gazpromneft Tosol is an ethylene glycol-based coolant concentrate for use in internal combustion engines. Product varieties: Gazpromneft Tosol 40 - coolant with a freeze protection temperature of -37 ºC, a mixture of concentrate and water in the ratio of 50%:50% by volume. Gazpromneft Tosol 65 is a coolant with a freeze protection temperature of -62 ºC, a mixture of concentrate and water in the ratio of 65%:35% by volume. Gazprom Neft Tosol Premix is a coolant with a freeze protection temperature of -20 ºC, a mixture of concentrate and water in the ratio of 33%:67% by volume.	Afnor R15-601 BS 6580-1992 GOST 33591–2015
Gazpromneft Heat-transfer	It is intended for use as a low-freezing coolant (antifreeze) in heat-exchange apparatus and systems. Product varieties: Gazpromneft Heat Transfer Fluid 30 - ready-to-use heat-carrier with a freeze protection temperature of -30 ºC. Gazpromneft Heat Transfer Fluid 65 is a concentrated heat carrier used to obtain operational mixtures with the required freeze protection temperature.	Clivet DAB Pumps Grundfos KSB Lavoro WILO Wirbel KONORD

BRAKE FLUID

Product Name	Description	Specifications*
Gazpromneft DOT 4	High-quality brake fluid for brake and clutch actuators of all car modifications, where fluids complying with DOT 4 standard are recommended. The fluid is operable at ambient temperatures from -50 to +50 °C. Use in accordance with car manufacturers' instructions.	FMVSS 116 ISO 4925 SAE J1704

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** not available for the Russian Federation market

INDUSTRIAL LUBRICANTS

HYDRAULIC OILS

Product Name	Description	Specifications*
Gazpromneft Hydraulic HVZF 22 32 46 68	A series of synthetic multigrade hydraulic oils developed using zinc-free additive technology for use in hydraulic equipment systems, for which both low and high operating temperatures are typical. Oils due to the use of synthetic base components have increased oxidation stability and provide extended service interval.	DIN 51524 Part 3 Bosch Rexroth RDE90235/ RE90220–01 Denison Hydraulics HF-0, 1, 2 Eaton E-FDGN-TB002-E (35VQ25) MAG P-68/P-69/P-70
Gazpromneft Hydraulic HVLP 10 15 22 32 46 68	A series of multigrade hydraulic oils designed for use in hydraulic equipment systems, for which both low and high operating temperatures are typical. The oils provide operation of hydraulic systems of mobile machinery in a wide range of temperatures, protect pumps from wear and have excellent filterability, keeping filters in working condition..	DIN 51524 Part 3 ABB Azipod Beltrameli Bosch Rexroth RDE 90235 Bosch Rexroth Fluid Rating List RDE 90245 Denison Hydraulics HF-0, 1, 2 Eaton E-FDGN-TB002-E (35VQ25) ISO 11158 HV MAG P-68/P-69/P-70 Sierra T 1000
Gazpromneft Hydraulic Nord-32	Multigrade hydraulic oil designed for use in hydraulic equipment systems for which both low and high operating temperatures are typical. The oil is designed to withstand very low ambient temperatures. It can replace standard multigrade oils of viscosity classes ISO22, 32, 46. The oil is designed for hydraulic drive and hydraulic control systems of construction, road, logging, lifting and transportation and other machines operating outdoors at temperatures from -25 to +50 °C.	DIN 51524 Part 3
Gazpromneft Hydraulic All Seasons	Hydraulic oil based on synthetic base components, which provides an extended temperature range compared to standard multigrade oils. The combination of synthetic base components and high stability polymer additive allows to achieve improved low-temperature and antioxidant properties. Due to improved viscosity-temperature characteristics it can be used instead of multigrade oils of viscosity classes ISO 22, 32.	DIN 51524 Part 3 ISO 6743–4 HV Pnevmo-stroymashina PSM-HYDRAULICS
Gazpromneft Hydraulic HLP 32 46 68 100	A range of hydraulic oils designed for use in hydraulic drives of stationary equipment where excellent anti-wear properties, effective corrosion protection, excellent filterability and deposit minimization are required. The oils in this series have a significant number of approvals from various hydraulic equipment manufacturers and meet the operational requirements of most hydraulic systems.	DIN 51524 Part 2 Arburg Battenfeld Bekum Beltramelli Bosch Rexroth Fluid Rating List RDE 90245 Bosch Rexroth RE 90220-01 Danieli Demag Denison Hydraulics HF-0, 1, 2 Eaton E-FDGN-TB002-E (35VQ25) Engel ISO 11158 HM MAG P-68/P-69/P-70 NATO Woojin Plaimm
Gazpromneft Hydraulic HZF 32 46 68	A series of zinc-free hydraulic oils specially formulated for industrial equipment hydraulic systems operating in constant temperature environments where zinc-free anti-wear additives are required. The oils provide excellent performance in systems with servo valves, have improved filterability, are compatible with most non-ferrous metals and protect metals from corrosion and rusting.	DIN 51524 Part 2 Bosch Rexroth RDE 90235 Denison Hydraulics HF-0, 1, 2 Eaton E-FDGN-TB002-E (35VQ25) MAG P-68/P-69/P-70 Sumitomo SHI Demag
Gazpromneft Hydraulic HLPD 32 46 68	A range of ashless hydraulic oils designed for hydraulic systems in industrial equipment where water, dirt, etc. may enter the lubrication system. HLPD class oils contain emulsifying and dispersing additives that keep contaminant particles in fine suspension and protect hydraulic equipment surfaces from wear, corrosion, ensuring efficient equipment operation.	DIN 51524 Part 2 (except for "ASTM D1401 demulsifying properties", which is not applicable to HLPD oils)
Gazpromneft Hydraulic 32 46 68 100	A series of hydraulic oils designed to replace GOST (Industrial Hydraulic Grease with Additives) level lubricants and for use in hydraulic systems requiring DIN 51524 Part 2 level oils. Provides a level of performance that exceeds the requirements for IHP (Industrial-Hydraulic with Additives) series oils.	DIN 51524 Part 2
Gazpromneft Hydraulic HFDU-46	Fire resistant hydraulic fluid developed on the basis of synthetic esters. Designed specifically for hydraulic equipment where a fluid is required to reduce the risk of fire when in contact with open flames or white-hot surfaces. Standard (mineral) hydrocarbon hydraulic fluids do not provide the required level of safety.	DIN 51502 HFDU ISO 12922 HFDU ISO 6743-4 HFDU
Gazpromneft Hydraulic HFC-46	Fire resistant hydraulic fluid developed on the basis of synthetic esters. Designed specifically for hydraulic equipment where a fluid is required to reduce the risk of fire when in contact with open flames or white-hot surfaces. Standard (mineral) hydrocarbon hydraulic fluids do not provide the required level of safety.	DIN 51502 HFC ISO 6743/4 HFC

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HYDRAULIC OILS OF GOST LEVEL

Product Name	Description
Gazpromneft VMGZ	Designed for hydraulic drive and hydraulic control systems of construction, road, logging, lifting and transportation and other machines operating outdoors. Provides reliable operation of hydraulic machines in climatic conditions of Russia (from -25 to +50°C, depending on the type of hydraulic pump).
Gazpromneft VMGZ-60	Intended for multigrade application in hydraulic drives and hydraulic systems of special machinery and industrial equipment operating in the temperature range of -55...+50 °C.
MGE-46V	It is intended for hydraulic systems (hydrostatic drive) of agricultural, construction and road building and other special equipment operating at pressure up to 35 MPa with short-term increase up to 42 MPa. It works in units of hydro-volume transmissions in the temperature range-10...+80 °C.
Gazpromneft MG-68V	Intended for use in hydraulic systems and transmissions of agricultural machinery tractors, including tractors operating at pressures not exceeding 25 MPa.

GEAR OILS

Product Name	Description	Specifications*
Gazpromneft Reductor PAO Synth 150 220 320 460 680	Fully synthetic gear oils designed for use in modern industrial gearboxes operating under severe operating conditions. The use of synthetic base oils based on polyalphaolefins (PAO) allows Gazpromneft Reductor PAO Synth to be used at both low and high operating temperatures with extended drain intervals (compared to mineral-based oils). The oils provide high cleanliness of gearbox working surfaces, excellent wear protection, excellent demulsifying and anti-foaming properties.	DIN 51517 Part 3 AGMA 9005-E02 AIST 224 ISO 12925-1 (CKD)
Gazpromneft Reductor F Synth 150 220 320 460	A series of synthetic gear oils designed for use in modern gearboxes of various industrial equipment. The oils provide high cleanliness of gearbox working surfaces, excellent antioxidant, antifoaming, anti-foaming, anti-wear and demulsifying properties.	DIN 51517 Part 3 AGMA 9005-E02 AIST 224 FlenderHansen Industrial Transmissions NV IEC 61400-4 ISO 12925-1 (CKD)
Gazpromneft Reductor CLP 68 100 150 220 320 460 680	A range of gear oils designed for use in modern gearboxes equipped with a circulating or splash lubrication system. Suitable for use in the gears of a wide range of modern industrial equipment.	DIN 51517 Part 3 AGMA 9005-E02 AIST 224 Danieli David Brown S1.53.101 ISO 12925–1 (L–CKC/CKD) ISO 6743–6 (L–CKC/CKD) MAG P-74/P-77
Gazpromneft Reductor WS 100 150 220	A range of gear oils designed for use in modern gearboxes equipped with a circulating or splash lubrication system. Suitable for use in the gears of a wide range of modern industrial equipment.	DIN 51517 Part 3 Wartsila
Gazpromneft Reductor ITD 68 100 150 220 320 460 680	A series of gear oils designed to replace GOST level oils	DIN 51517 Part 3

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COMPRESSOR OILS

Product Name	Description	Specifications*
Gazpromneft Compressor PAO NG 150 220	A series of synthetic compressor oils designed for use in oil-injected screw compressors and lubrication systems of reciprocating compressors pumping hydrocarbon gases (natural gas), including those with high content of sulfur compounds. Produced on the basis of high quality polyalphaolefin synthetic oils (group IV according to API) and a special additive package. This combination provides stability of operational properties and protection of compressor part from corrosion and deposits, especially in the presence of hydrogen sulfide.	
Gazpromneft Compressor PAG WG 150 220	A series of synthetic compressor oils designed for use in oil-injected screw compressors and lubrication systems of reciprocating compressors pumping heavy hydrocarbon gases (associated and process gases). They are characterized by very low solubility of hydrocarbon gases even at elevated pressure. The oils are produced on the basis of high quality polyalkylene glycol oils (group V according to API) and a special additive package. This combination provides stability of operational properties and protection of the compressor part from wear and deposits even when using C4 and higher gases.	
Gazpromneft Compressor F Synth 46 68	A series of ashless synthetic compressor oils designed for use in screw and vane (air) compressors requiring high performance at DIN 51506 VDL or ISO 6743 DAJ level. The use of synthetic base oils ensures high cleanliness of compressor equipment due to high thermal stability of the oil and resistance to deposit formation.	DIN 51506 VDL ISO 6743 DAJ ROTORCOMP VERDICHTER GmbH

Product Name	Description	Specifications*
Gazpromneft Compressor S Synth 46 68 100 150	A range of ashless semi-synthetic compressor oils designed for lubrication of air compressors (positive displacement and dynamic types) of modern production, where an oil performance level not lower than DIN 51506 VDL is required. Synthetic base components provide high oil stability against oxidation and deposit formation.	DIN 51506 VDL ROTORCOMP VERDICHTER GmbH Krasnodar compressor plant "Borets"
Gazpromneft Compressor Oil T-46	Oil for dynamic compressors. Due to the use of synthetic components Gazpromneft Compressor Oil T-46 has high thermal-oxidative stability, minimizes the formation of deposits in the discharge lines of compressors.	
Gazpromneft Compressor Oil 46 68 100 150 220 320	A range of ashless compressor oils designed for lubrication of various types of compressors (positive displacement and "dynamic") where the DIN 51506 VCL performance level is required. Gazpromneft Compressor Oil in viscosities ISO 460, ISO 680 are designed for the lubrication system of Ariel reciprocating compressors.	DIN 51506 VCL ROTORCOMP VERDICHTER GmbH JSC UKZ JSC Sumskoye NPO

COMPRESSOR OILS OF GOST LEVEL

Product Name	Description
Gazpromneft MGD-14M	Oil intended for lubrication of working parts of gas engine compressors (engine and compressor) installed in gas trunkline systems for compression and transportation of natural and associated petroleum gases, for gas injection into underground storages. It is made of high quality mineral base oils and special low ash additive package.
Gazpromneft MGD-20M	Developed for lubrication of two-stroke gas engine compressors installed in gas trunkline systems for compression and transportation of natural and associated petroleum gases, for gas injection into underground storage facilities. It is intended for use as a single lubricating oil (two-stroke gas engine and compressor part) for gas motor compressors of models MK-8, MK-8M, 10GKMA, 10GKNAM and 10GKMA as a replacement of MC-20 oil. It has official approval of Gazprom All-Union Research Institute of Natural Gases LLC.

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Product Name	Description
Kp-8S with increased stability	It is produced according to technical specifications of All-Russian Research Institute for Oil Refining TU 38.1011296-90. It is intended for use in lubrication systems of dynamic-type compressors (turbo compressors, centrifugal compressors) and screw compressors. It can be used in compressors equipped with a single lubrication system of the blower and gearbox, as well as pumping ammonia.
Ks-19p A	Designed for lubrication of medium and high pressure reciprocating compressors, blowers and rotary compressors operated in various industries and transportation where the equipment manufacturer has specified the use of oil of this viscosity class. Also recommended for single-stage and multistage compressors compressing air and/or other oil-insoluble gases.

TURBINE OILS

Product Name	Description	Specifications*
Gazpromneft Turbine Oil F Synth EP 32 46 68	A series of synthetic turbine oils with anti-seize additives designed for lubrication of modern gas turbines and gas turbine combined cycle. The oils are used in high-speed gas turbines and combined cycle gas turbines, including turbine-to-gear systems. The use of synthetic base oils in combination with antioxidant additives allows to use these products for lubrication of bearings and gearboxes of heat-stressed turbines according to DIN 51515 Part 2. They can be used with extended drain intervals compared to mineral-based oils.	DIN 51515 Part 1,2 ABB Alstom Brush General Electric GEK 101941A/32568K/ 107395A/3121608 ISO 8068 L-TSA & L-TGA ISO 8068 L-TSE & L-TGE Siemens TLV 901304/901305 JSC Silovye Mashiny HTGD 90117 AD Solar ES 9224Y Class II
Gazpromneft Turbine Oil 32	Turbine oil for lubrication and cooling of bearings in stationary steam, gas turbines and gas turbine combined cycle plants (CCPP). It has high oxidation resistance, fast air separation, low foaming tendency, fast water separation and excellent anti-corrosion properties. Gazpromneft Turbine Oil 32 ensures reliable operation of equipment and meets the requirements set to oils by major manufacturers of steam and gas turbines.	Alstom HTGD90117 ASTM D4304–00 Type I (non-EP) DIN 51515 Part 1, 2 General Electric GEK 28143A/46506D ISO 8088 L-TSA/L-TGA JIS K 2213:1983 type 2 Siemens TLV 901304/ 901305 Solar ES-9–224W

Product Name	Description	Specifications*
Tp-22S Mark 1	Turbine oil designed for lubrication of bearings and auxiliary mechanisms of high-speed turbines. It is produced with the use of high quality base components and modern corrosion inhibitors and metal passivators, which increases the service life of the lubricant and preserves the life of the equipment.	JSC VTI JSC "TURBOATOM" JSC UES of Russia Manufactured according to TU 38.101821-2013
Tp-30	Turbine oil produced from high quality mineral base oils and an effective additive package. Provides high performance characteristics: excellent equipment protection, reliable operation, reduced downtime and extended oil change intervals.	

Product Name	Description
Gazpromneft Turbine Oil Synth 10 GP	Intended for use in gas pumping units driven by heat-tensioned converted aviation gas turbine engines such as NK-36ST, AL-31ST, PS-90GP-25, which require a level of thermal oxidative stability (TOS) 175 0 C. It belongs to group II, class A according to standards of organization Gazprom 2-1.16-777-2014. It has weak properties to form high-temperature deposits in comparison with analogs due to the use of more modern production technology.

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SLIDEWAY OILS

Product Name	Description	Specifications*
Gazpromneft Slide Way 68 220	A series of oils designed for lubrication of sliding guideway of modern machine tools. They ensure high accuracy of workpiece machining and long service life of the equipment.	DIN 51524 Part 2 HLP DIN 51517 Part 3 CLP DIN 51502 CGLP ISO 19378 (L-GA) ISO 6743–13:L-GA/GB MAG P-47/P-50

OILS FOR ROLLING MILLS

Product Name	Description	Specifications*
Gazpromneft Romil EP 100	Recirculating oil for rolling mills operating in steel mills with improved anti-wear, demulsifying and anti-corrosion properties. The oil is designed to provide effective lubrication of liquid friction bearings manufactured by Danieli and Morgoil. Recommended for non-reversible No-Twist small section and wire mills. Maintains its performance even under the most severe operating conditions, including in the presence of water. High load carrying capacity and excellent oil oxidation stability maximize bearing and equipment life.	Danieli No-Twist Mill Morgan No-Twist Mill
Gazpromneft Romil 46 100 150 220 320 460	A range of recirculating oils for rolling mills operating in steel mills with improved demulsifying and anti-corrosion properties. The oils are designed to provide effective lubrication for Danieli and Morgoil liquid friction bearings. High load carrying capacity and excellent oxidation stability maximize bearing and equipment life.	Danieli Morgoil-Standart Lubricant (SN 180-3:2009-01) Morgoil - Advanced Lubricant (SN 180-4:2009-01)
PS-28 **P-40**	Oils intended for use in rolling mill gearboxes.	
Gazpromneft **I46PV,** **I220PV,** **I460PV**	Industrial oils of Gazpromneft IPV series, which are a blend of refined mineral oils with additives improving anticorrosive, antioxidant, demulsifying and anti-foaming properties.	JSC EZTM

STATIONARY GAS ENGINE OILS

Product Name	Description	Specifications*
Gazpromneft GEO 40	High quality engine oil for stationary gas piston engines requiring low ash content lubricants. Developed with a special additive package (Low-SAPS technology) for effective protection of engine parts against ash deposits and increased protection against varnish deposits.	Caterpillar G3500/G3600 Cummins Lean Burn Deutz 2016 Guascor SFGLD Jenbacher Type 3 MAN E2842 Wartsila SG Waukesha VHP

PAPER MACHINE OILS

Product Name	Description	Specifications*
Gazpromneft PM Plus-220	Oil developed for use in wet and dry recirculating oiling systems of paper-making machines. It has improved stability against oxidation and color retention stability during operation. Gazpromneft PM Plus-220 provides increased protection of bearings and other working surfaces from corrosion and wear, reducing maintenance costs. It is used in gears and recirculating oil lubrication systems for paper machine bearings where ISO 220 viscosity grade oil is required.	DIN 51517 Part 3
Gazpromneft PM 150 220	A series of ashless oils designed for use in recirculating oiling systems of paper machines, as well as for lubrication of heavily loaded friction units of gears and bearings. Oils have improved water separation properties, excellent bearing capacity and high corrosion protection. They are used in recirculating oil systems of gears and bearings of paper machines, including those produced by Metso, where ISO 150, 220 viscosity oils are required.	DIN 51517 Part 3 Metso paper RAU4L00659.04

SPINDLE OILS

Product Name	Description
Gazpromneft Velocite Oil 2 **Gazpromneft Spindle Oil-7,10**	Process oils based on highly refined low-viscosity oil distillates with the addition of a high-performance additive package that improves antioxidant, anticorrosion and antifoaming properties of the products.

AIR TOOL OILS

Product Name	Description
Gazpromneft Pneumo 32 46 100	A range of oils designed for pneumatic break-away tools, including rock drilling equipment. Gazpromneft Pneumo oils have excellent adhesion properties, ensuring a stable oil film even under impact loads. The composition contains special emulsifiers that retain moisture, protecting equipment from corrosion and wear.

FORM OILS

Product Name	Description
Gazpromneft Formwork Oil C10 **Gazpromneft Form Oil 135**	Separation oils for separating concrete products from formwork. The oils have improved adhesion, wetting and anti-corrosion properties. They form a separating layer on the formwork surface, which prevents direct contact between the formwork and the working material. They are used in the process of casting concrete products in steel, wooden or plastic-coated formwork in the open air and in production facilities..

HEAT-TRANSFER OILS

Product Name	Description	Specifications*
Gazpromneft HTO 32	Semi-synthetic heat transfer oil designed for use in open and closed circuits of heating systems with intensive forced circulation. Due to the use of synthetic components, it provides high thermal and thermal oxidation stability, reducing the amount of deposits on the elements of heating systems.	ISO 6743–12 (Q)

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QUENCHING OILS

Product Name	Description	Specifications*
Thermoil-16, -26	A series of quenching oils for producing steel products with high hardness values, required structure and surface finish. The oils have low vaporizability, high thermal stability. They do not form harmful substances during heat treatment, provide optimal cooling and hardening, including large-sized products.	AVTOVAZ JSC

TRANSFORMER OILS

Product Name	Description	Specifications*
Gazpromneft GK Mark 1 Mark 2	Mineral based oils with antioxidant additive. They have good dielectric properties and high stability against oxidation.	Conform to the requirements of international standard IEC 60296:2012 Rosseti PJSC (Gazpromneft Group Mark 2)

PLASTICIZER OILS

Product Name	Description
Gazpromneft Rubber Oil R	Technological plasticizer oil. Intended for use in the production of synthetic rubbers, tires and rubber technical products (RTP). It is a target product of the technological process of residual raw material purification by selective solvent. It is used as a plasticizer and softener used in the production of rubber compounds for tires, RTP (including mass), automotive parts, rubber adhesives, etc.
Gazpromneft Rubber Oil NT	Non-carcinogenic paraffinic process oil with high viscosity and low sulphur content. It is a pure mineral oil of selective purification, which provides good compatibility with natural and synthetic rubbers. It is used as a component for the production of tires and rubber products.
PN-6sh	A concentrate of aromatic hydrocarbons used as a softener oil for rubber products. It is obtained by compounding of extracts of selective purification of oil fractions of crude oil.

Product Name	Description
Gazpromneft PM	Softener plastisizer for rubber industry, produced from distillates of low-sulfur crude oils by deep selective purification and dewaxing. Intended for use in production of rubbers for tire industry and rubber products.
Gazpromneft Rubber Oil	Process oil used as a component for production of tires and rubber products. Produced on the basis of selectively refined mineral oils.

GENERAL PURPOSE INDUSTRIAL OILS

Product Name	Description	Specifications*
I-12A, I-20A,I-30A, I-40A,I-50A.	Oils without additives are used as service fluids in hydraulic systems of industrial equipment, construction and road building machines, automatic lines, presses. Can be used as a base component in the production of oils with additives, greases. They are used in conditions of the above zero temperatures. Produced in accordance with GOST 20799.	
IGP-18, IGP-30, IGP-38, IGP-49, IGP-72, IGP-91,IGP-114, IGP-152	Industrial hydraulic oils with additives are distillate, residual or a mixture of distillate and residual oils from sulfuric oils of deep selective purification with additives that improve the operational properties of oils. Intended for use in hydraulic systems of machine tool, press and other industrial equipment, as well as for lubrication of low- and medium-loaded gears and worm gears of domestic production. They are produced according to TU 0253-052-00151911.	Approved by PJSC Srednevolzhsky Research Institute for Oil Refining
Gazpromneft Industrial 30, 40	A series of general purpose industrial oils based on high quality base oils and a full additive package to improve operational properties. Designed specifically to replace low-alloy general purpose industrial oils (I-30A, I-40A).	DIN 51524 Part 2
Gazpromneft Circulation Oil 100	Recirculating oil based on high quality mineral base oils with improved demulsifying and anti-corrosion properties. Applicable in a wide fleet of modern industrial equipment.	
Axial oils grades Z and L	Axial oils, produced on the basis of high quality base oils with antiwear, anti-corrosion, antioxidant and depressor additives. They are produced according to GOST 610-2017. Application: axle journals of wheel pairs of railroad rolling stock in winter (grade Z) and summer (grade L) periods.	DIN 51524 Part 2 HLP SEB 181 222 U.S. Steel 126/127

COOLING LUBRICANTS

WATER-MISCIBLE GROUP

Product Name	Description
Gazpromneft Cutfluid EST	Biostable semi-synthetic water-miscible fluid based on mineral oil and esters. It is used for medium and heavy operations: turning, rifling, drilling, milling, deep drilling with gun drills, gear cutting, tapping, broaching, reaming and countersinking.
Gazpromneft Cutfluid Standard	High quality water-miscible fluid with a high mineral oil content and a high performance additive package providing versatility and emulsion stability. Used for turning, rifling, drilling and milling.
Gazpromneft Cutfluid Synthetic	High quality water-miscible fluid with a high mineral oil content and a highly effective combination of additives and components with guaranteed, sustainable availability, including those produced in-house, ensuring multifunctionality and emulsion stability.
Gazpromneft Cutfluid Universal	Synthetic water-miscible fluid based on modern imported additive package forming a transparent emulsion. The product provides excellent corrosion protection and heat dissipation from the contact zone between tool and workpiece. Application: grinding, honing, turning.
Gazpromneft Cutfluid AL	Semi-synthetic water-miscible fluid for a wide range of applications with mineral oil content. The concentrate provides versatility and emulsion stability even under extreme metal working conditions. Especially recommended for aluminum, aluminum alloys, aircraft alloys.
Gazpromneft Cutfluid Standard LE	High quality water-miscible fluid with a high mineral oil content and a highly effective combination of additives and components with guaranteed, sustainable availability, including those produced in-house, ensuring multifunctionality and emulsion stability.
Gazpromneft Cutfluid Synthetic LE	Synthetic water-miscible liquid based on modern anticorrosion components and additive complexes with guaranteed, stable availability, including proprietary ones, which forms a transparent mixture when mixed with water. The product provides excellent corrosion protection and heat dissipation from the contact zone between tool and workpiece.
Gazpromneft Cutfluid Universal LE	Semi-synthetic water-miscible fluid for a wide range of applications, forming a stable translucent emulsion when mixed with water. It contains highly purified mineral oil and an effective package of in-house developed emulsifiers, as well as a complex of functional components from reliable manufacturers, including own production. The product is designed as a universal solution for a wide range of materials and most metalworking operations: grinding, turning, cutting, drilling and milling.
Gazpromneft Cleanfluid	Biocide-free, highly effective cleaner for cooling systems, production machines, circulation systems and other equipment. Gazpromneft Cleanfluid breaks down biofilms that can accumulate in machine tool systems and cleans the system.

OILY GROUP

Product Name	Description
Gazpromneft Cutoil 20	Lubricating-cooling fluid recommended for medium-heavy general metalworking operations: sawing, turning, cutting, drilling, milling.
Gazpromneft Cutoil 50 EP	Lubricating-cooling fluid designed for medium to heavy-duty general metalworking operations such as reaming, broaching, deep drilling, gear cutting and stamping. Contains sulfur compounds as an anti-seize agent.
Gazpromneft Cutoil GR 7	Low-viscosity lubricating-cooling fluid on synthetic base with addition of specially developed additive complex. It has high tribological characteristics, increased resistance to oxidation and long service life. Provides the highest quality of the processed surface.
Gazpromneft Pressoil D 60	Lubricating-cooling fluid designed for medium to heavy metalworking operations such as drawing, stamping, rolling, torsion and thread rolling operations.
Gazpromnef Cutoil 30	Universal lubricating-cooling fluid for heavy-duty turning and milling operations on a wide range of materials. Active complex of tribological additives is compatible with colored materials. Prepared on the basis of modern semi-synthetic base oils of high degree of purification and synthetic esters.
Gazpromnef Cutoil 10 EP	Multifunctional lubricating-cooling fluid on oil bases of high degree of purification with the addition of modern additive complex to ensure highly loaded machining of steels and alloys.
Gazpromnef Cutoil 20 EP	High-tech oil lubricating-cooling fluid based on modern highly purified base oils and synthetic esters, alloyed with highly effective sulfur-containing EP additive and other functional components. Recommended for demanding machining operations on high-alloy steels, gear machining segment.
Gazpromneft Cutoil GR 10	Multifunctional, highly refined lubricating-cooling fluid based on oil with excellent performance characteristics, low tendency to foaming and evaporation.
Gazpromnef Cutoil 30 EP	Multifunctional lubricating-cooling fluid for a wide range of heavy-duty steel turning and milling operations. Contains tribological additive based on sulphur compounds for high load operation.

FAST EVAPORATING GROUP

Product Name	Description
Gazpromneft Formsynth EV 2	Fast evaporating, highly purified oil providing high lubricating properties. The oil film dries in a short period of time, which makes it possible to quickly carry out further painting and welding processes. Recommended for punching, stamping, piercing and light drawing operations.
Gazpromneft Formsynth EV 1H	Fast evaporating oil. The product dries in a short period of time, making further painting and welding processes much easier. Does not contain silicone.

GREASES

UNIVERSAL GREASES

Product Name	Description	Compliance with DIN 51502
Gazpromneft Grease Synth LX EP NLGI Grade: 2	Specialized grease based on synthetic base oil (PAO) and lithium complex thickener containing anti-wear additives (EP additives). Designed for use in the Far North in various equipment and machinery.	DIN 51502 KPHC 2 N-50
Gazpromneft Premium Grease EP NLGI Grade: 00, 0, 1, 2	A line of multifunctional semi-synthetic greases with EP additive package based on lithium complex soap, designed for friction units lubricated both by automatic centralized systems (NLGI 00, 0, 1, 2) and by embedded method (NLGI 2). It is recommended for use in units with high and medium speeds, ultra-high loads of commercial vehicles, industrial equipment and special machinery (used in mining, logging, construction, agricultural and other industries), operated in a wide range of temperatures and loads.	NLGI grade 00 - DIN 51502 CR 00 N-50 NLGI grade 0 - DIN 51502 CR 0 N-50 NLGI grade 1 - DIN 51502 CR 1 P-40 NLGI grade 2 - DIN 51502 KR 2 P-40
Gazpromneft Grease LX EP NLGI Grade: 1, 2	Universal greases based on high quality 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 centralized lubrication systems and as embedded lubricants.	NLGI grade 1 - DIN 51502 KP 1 P-30 NLGI grade 2 - DIN 51502 KP 2 P-30
Gazpromneft Grease LTS NLGI Grade: 1, 2	Universal greases based on high quality base oil and lithium-calcium thickener with content of anti-wear additives (EP-additives) and high adhesion. Intended for use in a wide range of industrial equipment and machinery with centralized lubrication systems and as embedded lubricants..	NLGI grade 1 - DIN 51502 KP 1 K-30 NLGI grade 2 - DIN 51502 KP 2 K-30
Gazpromneft Grease L EP NLGI Grade: 00, 0, 1, 2, 3	Universal greases based on high quality base oil and lithium thickener containing anti-wear additives (EP-additives). Intended for use in a wide range of industrial equipment and machinery with centralized lubrication systems and as embedded lubricant.	NLGI grade 00 - DIN 51502 KP 00 K-30 NLGI grade 0 - DIN 51502 KP 0 K-30 NLGI grade 1 - DIN 51502 KP 1 K-30 NLGI grade 2 - DIN 51502 KP 2 K-30 NLGI grade 3 - DIN 51502 KP 3 K-30
Gazpromneft EP NLGI Grade: 2, 3	Universal greases based on high quality base oil and lithium thickener with anti-wear additives (EP-additives). Intended for use in a wide range of industrial equipment and machinery with centralized lubrication systems and as embedded lubricants.	NLGI grade 2 — DIN 51502 KP 2 K-40 NLGI grade 3 — DIN 51502 KP 3 K-40
Gazpromneft Grease L NLGI Grade: 2	Universal grease based on high quality base oil and lithium thickener with anti-wear additives (EP-additives). Intended for use in a wide range of industrial equipment and machinery with centralized lubrication systems and as embedded lubricant.	DIN 51502 K 2 K–30

SPECIAL GREASES

Product Name	Description	Compliance with DIN 51502
Gazpromneft Grease HighSpeed EP NLGI Grade: 3	Specialized 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 embedded lubricant.	DIN 51502 KP 3 N-40
Gazpromneft Grease Nord Moly NLGI Grade: 0	Specialized grease based on high quality base oil and lithium complex thickener containing anti-wear additives (EP-additives) and solid filler (disulfidamolybdenum). Intended for use in heavy-duty friction units of various machinery in the Far North.	DIN 51502 KPF 0 K-50
Gazpromneft Steelgrease CS NLGI Grade: 1, 2	Plastic greases based on high quality base oil and calcium sulfonate thickener containing anti-wear additives (EP-additives). Designed for use in a wide range of industrial equipment and machinery, especially in metallurgical industry, operating under conditions of particularly high temperatures, high loads and frequent contact with water.	NLGI grade 1 - DIN 51502 KP 1 S-30 NLGI grade 2 - DIN 51502 KP 2 S-30
Gazpromneft Grease PM CS 1,5 NLGI Grade: 1, 2	Multifunctional water-resistant grease based on calcium sulfonate is designed for friction units operating at high temperatures and ultra-high loads. It is used under severe operating conditions of paper mills: medium and high-speed equipment units, high temperatures and direct water interaction.	DIN 51502 KP 1-2 S-30
Gazpromneft Grease Reductor LTS EP NLGI Grade: 00	Water-resistant grease based on a special composition of oils, additives and lithium-calcium soap thickener for a variety of heavily loaded units of vehicles and industrial equipment. It is used in gearboxes, which construction is not oil-tight, and in large bearings operating at low speeds, bushings, sliding guides and general purpose lubrication systems using liquid greases.	DIN 51502 GP 00 K-40

Product Name	Description	Compliance with DIN 51502
Gazpromneft Offroad Grease CS NLGI grade: 2	Specialized water-resistant grease based on calcium sulfonate, designed for use in units of mobile off-road vehicles operating under conditions of high temperatures, extremely high loads and low speeds. It can be used both in centralized lubrication systems, and as embedded lubricant. Operable at temperatures from -30 to +200 °C.	DIN 51502 KP 2 S-30

ULTRA-HIGH LOADS

Product Name	Description	Compliance with DIN 51502
Gazpromneft Grease LTS Moly EP NLGI grade: 2	Universal grease based on high quality base oil and lithium-calcium thickener with anti-wear additives (EP additives). Intended for use in a wide range of industrial equipment and machinery as embedded lubricants	DIN 51502 KPF 2 K-30
Gazpromneft Grease LTS Moly EP 1 All Seasons NLGI grade: 1	Multifunctional lithium-calcium grease with high performance, containing EP additives and solid filler (molybdenum disulfide). It is used for lubrication of friction units of construction, mining and other machinery exposed to extremely high loads and operated in extremely severe conditions, including in the presence of water and when the use of lubricants with fillers in the composition is recommended by the manufacturer of machinery. Used for centralized lubrication systems.	DIN 51502 KPF 1 K-30
Gazpromneft Grease L Moly EP NLGI grade: 2	Multifunctional grease based on high quality base oil and lithium thickener containing anti-wear additives (EP additives) and solid filler (disulfidamolybdenum). Intended for use in heavily loaded friction units of transport, equipment and machinery as embedded lubricant.	DIN 51502 KPF 2 K-30
Gazpromneft Grease Premium HD NLGI grade: 2	Multifunctional complex lithium grease with molybdenum disulfide and anti-seize additives (EP-additives), designed for lubrication of friction units of construction, mining and other special equipment operated in conditions of ultra-high, shock and vibration loads. Operating temperature range from -25 to +150 °C.	
Gazpromneft Universal Grease NLGI grade: 2	Multipurpose multifunctional lithium grease with EP additives. Designed for lubrication of various friction units (bearings, hinges, joints, medium load gears, machine parts, tools, etc.).	DIN 51502 KPF 2 K-30

FOR DOMESTIC USE

Product Name	Description	Compliance with DIN 51502
Gazpromneft Reductor Grease NLGI grade: 0	Special grease based on lithium-calcium soap, designed for lubrication of small gears with any type of gearing (in brush cutters, trimmers, power drills, hammers, grinders, etc.), as well as high friction surfaces. It has enhanced adhesion to the parts and optimal consistency, which allows to protect against wear, scoring and corrosion of both low and high-speed gearboxes.	DIN 51502 KP 0 K-30
Gazpromneft Drill lubricant NLGI grade: 2	Special grease based on lithium-calcium soap, designed for maximum protection of drill shanks, bits of all types of jackhammers, chisels, blades, guide barrels of drill chucks against wear. It has high adhesion to metal. Provides a long service life of impact power tools and nozzles for it. How to use: evenly apply a small amount of grease to the shank of the nozzle (drill, crown, bit, etc.).	DIN 51502 KP 2 K-30

GREASES OF GOST LEVEL

Product Name	Description	Compliance with DIN 51502
CV-joints-4M Gazpromneft grease for CV joints NLGI grade: 2	Water-resistant lithium greases based on mineral oil and high-performance additive package with the addition of molybdenum disulfide. Designed for lubrication of CV-joints of cars, clutch bearings, rear brake drum seating, splines of cardan shafts and other friction units.	DIN 51502 K 3 K-40
Litol-24 Gazpromneft Litol 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. They are operable at temperatures from -40 to +120 °C, they are short-term operable at temperatures up to +130 °C. Li-Tol-24 grease is produced in accordance with GOST 21150-2017.	

TYPICAL PHYSICOCHEMICAL PARAMETERS

LUBRICANTS FOR PASSENGER AND COMMERCIAL VEHICLES

Engine oils for passenger and commercial vehicles

Indicators	Method	Gazpromneft Premium C3 5W-30	Gazpromneft Premium C3 5W-40	Gazpromneft Premium JK 0W-20	Gazpromneft Premium JK 5W-20	Gazpromneft Premium JK 5W-30	Gazpromneft Premium N 5W-40	Gazpromneft Premium N 20W-50	Gazpromneft Premium A3 5W-30	Gazpromneft Premium A5B5 5W-30	Gazpromneft Premium L 5W-30	Gazpromneft Premium L 5W-40	Gazpromneft Premium L 10W-40	Gazpromneft Premium L 10W-30	Gazpromneft Premium L 15W-40	Gazpromneft Premium L 20W-50	Gazpromneft Ecogas 10W-40	Gazpromneft Ecogas 15W-40
Kinematic viscosity at 40 °C, mm²/sec	ASTM D445	70,1	81,3	45,7	49,9	66,1	83,2	–	70,1	68,7	70,1	88,9	94,5	81,3	114,5	178,2	97,2	107,8
Kinematic viscosity at 100 °C, mm²/sec		12,1	14,1	8,6	8,5	11,2	14,2	18,69	11,7	11,5	11,7	14,5	14,3	12,1	14,8	18,9	14,3	14,5
Viscosity index	ASTM D2270	172	180	170	147	163	177	120	163	162	163	170	156	144	133	120	151	138
Flash point (COC), °C	ASTM D92	227	224	222	231	232	232	235	225	228	232	230	232	234	229	240	231	235
Pour point, °C	GOST 20287	-38	-37	-46	-40	-40	-41	-32	-46	-48	-46	-41	-39	-37	-35	-29	-37	-32
Base number, mg KOH/g	ASTM D2896	7,0	7,0	8,4	8,4	8,4	10,1	11,2	10,7	10,4	9,1	9,1	9,1	9,1	9,1	9,1	–	–
	GOST 11362	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	7,0	7,0

Indicators	Method	Gazpromneft Super 5W-30	Gazpromneft Super 5W-40	Gazpromneft Super 10W-40	Gazpromneft Super 10W-30	Gazpromneft Super 15W-40	Gazpromneft Standard 10W-40	Gazpromneft Standard 15W-40	Gazpromneft Standard 20W-50
Kinematic viscosity at 40 °C, mm²/sec	ASTM D445	67,3	89,1	94,3	76,8	107,9	91,1	109,5	169,2
Kinematic viscosity at 100 °C, mm²/sec		11,6	14,3	14,2	11,5	14,3	13,7	14,4	18,4
Viscosity index	ASTM D2270	162	167	155	142	135	153	134	121
Flash point (COC), °C	ASTM D92	224	234	229	234	234	230	237	246
Pour point, °C	GOST 20287	-39	-40	-38	-38	-34	-37	-34	-28
Base number, mg KOH/g	GOST 11362	6	6	6	6	6	6	6	6

Oils for small machinery

Indicators	Method	Gazpromneft Moto 4T 10W-40	Gazpromneft Moto 4T 10W-30	Gazpromneft Moto 4T 20W-50	Gazpromneft Moto 4T 30	Gazpromneft Scooter 4T 10W-30	Gazpromneft Scooter 4T 10W-40	Gazpromneft Moto 2T	Gazpromneft Chain Oil
Kinematic viscosity at 40 °C, mm²/sec	ASTM D445	96,2	82,7	169	–	80,2	100,9	–	–
Kinematic viscosity at 100 °C, mm²/sec		14,1	12,3	18,3	11,2	11,9	14,6	8,4	11,3
Viscosity index	ASTM D2270	150	145	121	-	142	150	–	–
Flash point (COC), °C	ASTM D92	228	230	256	242	233	223	220	225
Pour point, °C	ASTM D97	-36	-36	-29	-30	-40	-38	-20	-32

The data on physical and chemical characteristics are for reference as of July 2023.
Up-to-date and more detailed information is available at www.gazpromneft-oil.ru/en

Engine oils for heavy-duty diesel engines

Indicators	Method	Gazpromneft Diesel Ultra 5W-30	Gazpromneft Diesel Ultra 10W-40	Gazpromneft Diesel Ultra 15W-40	Gazpromneft Diesel Ultra Plus 10W-40	Gazpromneft Diesel Ultra LA 10W-40	Gazpromneft Diesel Ultra CS 10W-40	Gazpromneft Diesel Premium 5W-40	Gazpromneft Diesel Premium 10W-30	Gazpromneft Diesel Premium 10W-40	Gazpromneft Diesel Premium 15W-40	Gazpromneft Diesel Prioritet 10W-30	Gazpromneft Diesel Prioritet 10W-40	Gazpromneft Diesel Prioritet 15W-40	Gazpromneft Diesel Prioritet 20W-50	Gazpromneft Diesel Extra 10W-40	Gazpromneft Diesel Extra 15W-40	Gazpromneft Diesel Extra 20W-50	Gazpromneft Diesel Extra 40	Gazpromneft Diesel Extra 50	Gazpromneft Turbo Universal 15W-40	Gazpromneft Turbo Universal 20W-50
Kinematic viscosity at 40 °C, mm²/sec	ASTM D445	75,2	101	111,5	99,5	95,5	105	87,9	73,2	100,1	112	71,8	103,9	117,5	170,3	100,4	112,1	169,1	166,2	261,2	109,5	171,9
Kinematic viscosity at 100 °C, mm²/sec		12,3	14,9	15,2	15,0	14,3	15,3	14,5	11,5	14,8	14,9	11,3	15,0	15,0	18,9	14,9	14,9	18,4	15,5	21,1	14,8	18,8
Viscosity index	ASTM D2270	162	155	142	159	155	151	172	150	154	138	147	151	132	125	155	138	121	94	95	140	123
Flash point (COC), °C	ASTM D92	232	233	224	222	254	224	230	232	230	234	230	234	232	239	233	234	245	257	265	239	240
Pour point, °C	GOST 20287	-40	-35	-38	-41	-37	-39	-43	-40	-37	-35	-40	-38	-33	-33	-38	-35	-29	-16	-13	-33	-32
Base number, mg KOH/g	ASTM D2896	15,5	15,5	14,1	13,8	10,2	9,7	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	GOST 11362	–	–	–	–	–	–	10	10	10	10	10	9	9	9	11	11	11	11	11	9	9
Sulphated ash, %	ASTM D874	1,6	1,6	1,6	1,6	1,6	1,0	1,4	1,4	1,4	1,4	1,3	1,3	1,3	1,3	1,5	1,5	1,5	1,5	1,5	1,2	1,1

Engine oils of GOST grade

Indicators	Method	M-8B	M-10B2	M-6z/10V	M-8G2	M-10G2	M-8G2k	M-10G2	Diesel Turbo SAE 20 (type M-8DM)	M-10DM	Gazpromneft Motor Oil 40	Gazpromneft Motor Oil 50	Gazpromneft Motor Oil 60
Kinematic viscosity at 100 °C, mm²/sec	GOST 33	8,2	11	10,1	8,1	11	8,2	11,1	8,4	15,4	14,9	18,5	24,6
Viscosity index	GOST 25371	94	93	121	95	92	96	94	98	92	93	93	92
Flash point (COC), °C	GOST 4333	234	239	238	238	240	234	242	234	251	248	254	260
Pour point, °C	GOST 20287	-27	-17	-36	-31	-17	-33	-16	-33	-16	-16	-13	-12
Base number, mg KOH/g	GOST 11362	5,6	7,3	8,2	7,3	7,3	7,1	7,1	9,2	9,2	4,7	4,7	4,7
Sulphated ash, %	GOST 12417	0,86	1,1	1,2	1,1	1,1	1	1	1,3	1,3	1	1	1

The data on physical and chemical characteristics are for reference as of July 2023.
Up-to-date and more detailed information is available at www.gazpromneft-oil.ru/en

Transmission oils

Indicators	Method	Gazpromneft ATF DX III	Gazpromneft ATF DX II	Gazpromneft GL-4/GL-5 75W-90	Gazpromneft GL-5 85W-140	Gazpromneft GL-5 140	Gazpromneft GL-5 75W-90	Gazpromneft GL-5 80W-90	Gazpromneft GL-5 90	Gazpromneft Super T-3	Gazpromneft GL-4 75W-85	Gazpromneft GL-4 75W-90	Gazpromneft GL-4 80W-85	Gazpromneft GL-4 80W-90	Gazpromneft GL-4 90	Gazpromneft GL-4 140
Kinematic viscosity at 100 °C, mm²/sec	ASTM D445	7,3	7,1	17,1	25,5	25,8	15,8	14,3	17	17,3	12,8	15,4	12,5	14,5	16,7	25,7
Brookfield, mPa*s:																
At -40 °C	ASTM D2983	18 000	38 000	120 000	–	–	113 000	–	–	–	90 000	145 000	–	–	–	–
At -26 °C		–	–	–	–	–	–	120 000	–	–	–	–	147 000	147 000	–	–
At -12 °C		–	–	–	42 500	–	–	–	–	18000	–	–	–	–	–	–
Flash point (COC), °C	ASTM D92	217	190	173	250	258	200	230	234	218	216	218	224	232	238	254
Pour point, °C	GOST 20287	-43	-40	-42	-19	-13	-42	-32	-17	-28	-42	-42	-29	-30	-15	-15
Tribological characteristics, Four-Ball method at 20 ± 5 °C:																
Load-wear index, N	GOST 9490	–	–	720	666	670	662	656	572	584	623	575	560	575	570	585
Weld point, N		–	–	5 500	4 880	5 500	4 900	4 900	4 250	4 350	5 204	3 920	3 479	3 920	3 950	4 350

Transmission oils

Indicators	Method	TSp-15K	Gazpromneft GL-1 90	Gazpromneft GL-1 140
Dynamic viscosity at -20 °C, Pa*s	GOST 1929	37	–	–
Kinematic viscosity at 40 °C, mm²/sec	GOST 33	–	214	419
Kinematic viscosity at 100 °C, mm²/sec		15,3	18	27
Viscosity index	GOST 25371	94	90	89
Flash point (COC), °C	GOST 4333	237	271	280
Pour point, °C	GOST 20287	-28	-16	-14
Tribological characteristics, Four-Ball method at 20 ± 5 °C:				
Load-wear index, N	GOST 9490	539	–	–
Weld point, N		3 960	–	–
Wear diameter, mm		0,44	–	–

Universal Hydraulic & Transmission oil

Indicators	Method	Gazpromneft UTTO 10W-30
Kinematic viscosity at 40 °C, mm²/sec	ASTM D445	72,3
Kinematic viscosity at 100 °C, mm²/sec		11,3
Viscosity index	GOST 25371	148
Flash point (COC), °C	GOST 4333	213
Pour point, °C	GOST 20287	-40
Brookfield at -18C, mPa*s:	ASTM D2983	3 100
Brookfield at -35C, mPa*s:		51 000

The data on physical and chemical characteristics are for reference as of July 2023.
Up-to-date and more detailed information is available at www.gazpromneft-oil.ru/en

Antifreezes

Indicators	Method	Gazpromneft Antifreeze SF12+	Gazpromneft Antifreeze Hybrid	Gazpromneft Antifreeze (BS)	Gazpromneft Antifreeze
Colour	Visually	Red	Blue and green	Green	Red
Density at 20C g/cm3	ASTM D1122	1,116	1,122	1,116	1,116
Boiling point, °C:	ASTM D1120				
Of concentrate		163	175	163	163
Of mixture 50% vol.		108	108	108	108
Alkalinity reserve ml HCl min	ASTM D1121	8,4	14,5	6,9	6,4
Hydrogen value (pH), 50% vol.	ASTM D1287	8,4	8,4	9,6	9,5
Foamability	ASTM D1881				
Volume max. ml3		100	100	100	100
Settling time		3	3	3	3
Chilling point.	ASTM D1177	-37	-37	– 37	-37

Heat-transfer oils

Indicators	Method	Gazpromneft Heat transfer 30	Gazpromneft Heat transfer 65
Appearance	Visually	Homogeneous transparent red-colored liquid	Homogeneous transparent red-colored liquid
Density at 20C g/cm3	ASTM D1122	1,059–1,063	1,081–1,085
Hydrogen value (pH)	ASTM D1287	-30	-65
Alkalinity reserve	ASTM D1121	2,5–4,0	2,5–4,0
Freezing point °C	ASTM D1177	-30	-65
Boiling point (1 atm), °C	ASTM D1120	108	116
Heat capacity at 20°C, kJ/kg*°C	ASTM D1218	1,3820	1,4005
Heat capacity at 20°C, kJ/kg*°C	ASTM E1269	3,1	3,5
Coefficient of expansion	ASTM D864		
At 20 °C		0,05	0,05
At 80 °C		0,07	0,07
Heat conductivity at 20C W/m C	ASTM C177	0,43	0,38
Kinematic viscosity at 20 °C, mm²/sec	DIN 51562	3,6	7,2
Surface tension	DIN EN 14370	53	56

The data on physical and chemical characteristics are for reference as of July 2023.
Up-to-date and more detailed information is available at www.gazpromneft-oil.ru/en

Antifreezes

Indicators	Method	Gazpromneft TOSOL		
Colour	Visually	Blue		
Density at 20C g/cm3	ASTM D1122	1,123		
Freezing point C	ASTM D1177	-37		
Frost protection temperature	Company standart 84035624-164-2015	Tosol 65	Tosol 40	Tosol Premix
		-62	-37	-20
Alkalinity reserve (dilution of concentrate 50%), ml HCl, min	ASTM D1121	16,6		
Hydrogen value (pH), 50% vol.	GOST 28084-89 p. 4.8	10		
Refractive index at 20 C	GOST 18995.2-73	1,431		

Brake fluid

Indicators	Method	Gazpromneft DOT 4
Appearance	p. 11.2 of company standart, GOST 2706.1	Transparent homogeneous liquid from light yellow to light brown color without sediment and visible mechanical impurities
Kinematic viscosity at 100 °C, mm²/sec	GOST 33	1,5
Kinematic viscosity at 40 °C, mm²/sec		1 800
Boiling point of dry liquid, °C,not less than	p. 11.3 of company standart	230
Boiling point of moistened liquid, °C,not less than	p. 11.4 of company standart	155
Hydrogen value (pH)	p. 11.6 of company standart	7,0–10,0
Water content, %, max.	GOST 14870	0,3
Mass fraction of mechanical impurities, %, max.	GOST 6370	0,03

INDUSTRIAL LUBRICANTS

Hydraulic oils

Indicators	Method	Gazpromneft Hydraulic HVZF				Gazpromneft Hydraulic HVLP						Gazpromneft Hydraulic HLP				Gazpromneft Hydraulic HZF			Gazpromneft Hydraulic HLPD		
Viscosity grade		**22**	**32**	**46**	**68**	**10**	**15**	**22**	**32**	**46**	**68**	**32**	**46**	**68**	**100**	**32**	**46**	**68**	**32**	**46**	**68**
Kinematic viscosity at 100 °C, mm²/sec	ASTM D445	5,1	7,0	8,8	11,8	3,0	3,9	5,0	6,6	8,0	10,4	5,5	6,8	8,7	11,1	5,4	6,7	8,5	5,3	6,7	8,5
Kinematic viscosity at negative temperatures, mm2 / s		725 (-20 °C)	1 198 (-20 °C)	869 (-10 °C)	–	100 (-40 °C)	580 (-30 °C)	700 (-20 °C)	1 500 (-20 °C)	1 100 (-10 °C)	–	–	–	–	–	–	–	–	–	–	–
Viscosity index	ASTM D2270	153	173	169	171	158	167	156	165	145	145	100	99	97	94	100	98	95	97	96	95
Flash point (COC), °C	ASTM D92	200	220	230	244	140	160	186	218	226	230	229	227	238	242	228	226	240	218	226	236
Pour point, °C	GOST 20287	-54	-50	-46	-39	-60	-58	-50	-48	-43	-40	-38	-34	-33	-30	-37	-35	-32	-23	-21	-19
Acid number,mg KOH/g	GOST 11362	0,2	0,2	0,2	0,2	0,7	0,7	0,5	0,7	0,6	0,7	0,6	0,6	0,6	0,6	0,1	0,1	0,1	0,3	0,3	0,3
Corrosion on copper plates, points	ASTM D130	1a	1a	1a	1a	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в

Indicators	Method	Gazpromneft Hydraulic HFDU-46	Gazpromneft Hydraulic HFC-46	Gazpromneft Hydraulic All Seasons	Gazpromneft Hydraulic Nord-32
Kinematic viscosity at 100 °C, mm²/sec	ASTM D445	9,5	10,55	5,72	9,4
Kinematic viscosity at 70 °C, mm²/sec		–	–	10,19	–
Kinematic viscosity at -40 °C, mm²/sec		–	–	–	2 450
Kinematic viscosity at -30 °C, mm²/sec		–	–	1 020	930
Viscosity index	ASTM D2270	184	230	230	302
Flash point (COC), °C	ASTM D92	300	–	160	112
Pour point, °C	GOST 20287	-42	-51	-53	-56

Indicators	Method	Gazpromneft Hydraulic				Gazpromneft Industrial 30	Gazpromneft Industrial 40
Viscosity class		**32**	**46**	**68**	**100**	**46**	**68**
Kinematic viscosity at 40 °C, mm²/sec	ASTM D445	32	46	68	100	46	68
Viscosity index	ASTM D2270	98	95	93	90	–	–
Flash point (COC), °C	ASTM D92	220	230	238	246	226	246
Pour point, °C	GOST20287	-28	-26	-25	-20	-16	-17
Corrosion on copper plates, points	ASTM D130	1b	1b	1b	1b	1b	1b
Acid number,mg KOH/g	GOST11362	0,6	0,6	0,6	0,6	–	–

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Hydraulic oils of GOST level

Indicators	Method	MG-68V	MGE-46V	VMGZ	VMGZ-60
Kinematic viscosity at above zero temperatures,mm²/sec	GOST 33	66,7 (at 40 °C)	46,4 (at 40 °C)	14 (at 50 °C)	10 (at 50 °C)
Kinematic viscosity at below zero temperatures,mm²/sec		–	–	–	1 500
Viscosity index, min	GOST 25371	93	95	–	200
Acid number,mg KOH/g	GOST 5985	0,9	0,95	0,4	–
Flash point (COC), °C	GOST 4333	234	227	195	160
Pour point, °C	GOST 20287	-31	-33	-46	-60

Gear oils

Indicators	Method	Gazpromneft Reductor F Synth				Gazpromneft Reductor WS			Gazpromneft Reductor CLP							Gazpromneft Reducrot ITD						
Viscosity class		150	220	320	460	100	150	220	68	100	150	220	320	460	680	68	100	150	220	320	460	680
Kinematic viscosity at 40 °C, mm²/sec	ASTM D445	150	220	320	460	100	150	220	68	100	150	220	320	460	680	68	100	150	220	320	460	680
Kinematic viscosity at 100 °C, mm²/sec		20,3	27,6	37,9	49,3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Viscosity index	ASTM D2270	159	167	161	165	101	98	97	97	95	95	95	93	93	90	95	93	93	92	92	92	90
Flash point (COC), °C	ASTM D92	232	235	238	240	238	244	256	238	240	242	252	254	276	292	236	238	240	242	250	274	280
Pour point, °C	GOST 20287	-38	-37	-35	-34	-35	-30	-27	-26	-20	-19	-18	-17	-15	-15	-23	-23	-19	-18	-17	-15	-15
FZG A/8.3/90, loading stages	DIN ISO 14635-1	> 14	> 14	> 14	> 14	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	DIN 51354-2	–	–	–	–	–	–	–	> 12	> 12	> 12	> 12	> 12	> 12	> 12	–	–	–	–	–	–	–
Acid number,mg KOH/g	GOST 11362	–	–	–	–	0,5	0,5	0,5	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Load-wear index, N	GOST 9490	–	–	–	–	491	496	493	454	464	470	480	509	530	550	450	458	468	477	496	519	522
Wear diameter, mm	GOST 9490	–	–	–	–	0,30	0,35	0,29	0,25	0,26	0,27	0,27	0,28	0,26	0,27	0,28	0,29	0,29	0,28	0,30	0,27	0,27
Corrosion on copper plates, points	ASTM D130	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в	1в

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Compressor oils

Indicators	Method	Gazpromneft Compressor Oil T-46	Gazpromneft Compressor PAG WG		Gazpromneft Compressor PAO NG		Gazpromneft Compressor F Synth		Gazpromneft Compressor S Synth				Gazpromneft Compressor Oil					
Viscosity class		**46**	**100**	**150**	**100**	**150**	**46**	**68**	**46**	**68**	**100**	**150**	**46**	**68**	**100**	**150**	**220**	**320**
Kinematic viscosity at 40 °C, mm²/sec	ASTM D445	46	100	150	100	150	46	68	46	68	100	150	46	68	100	150	220	320
Kinematic viscosity at 100 °C, mm²/sec		6,7	20,4	29,3	14,8	20,8	7,5	10,4	6,9	9,0	11,5	15,2	6,7	8,5	11,0	14,7	18,3	24,3
Viscosity index	ASTM D2270	101	225	236	152	164	130	146	105	104	103	102	97	93	93	93	91	91
Flash point (COC), °C	ASTM D92	228	241	247	260	284	230	246	241	252	253	258	235	246	251	257	263	264
Pour point, °C	GOST 20287	-15	-51	-45	-36	-33	-39	-40	-32	-31	-31	-29	-32	-30	-28	-23	-20	-17
Acid number,mg KOH/g	GOST 11362	0,07	–	–	0,05	0,01	0,4	0,4	0,1	0,1	0,1	0,1	0,14	0,14	0,14	0,14	0,14	0,14

Compressor oils of GOST level

Indicators	Method	Gazpromneft MGD-14M	Kp-8C with increased stability	Gazpromneft MGD-20M	KS-19p A
Kinematic viscosity at 100 °C, mm²/sec	ASTM D445	14	6,4	20,8	23,2
Viscosity index	ASTM D2270	94	95	105	88
flash point (COC), °C	ASTM D92	267	226	255	272
Pour point, °C	GOST 20287	-29	-15	-23	-16
Acid number,mg KOH/g	GOST 11362	–	0,045	-	0,01
Sulphated ash, %	GOST 1461	0,28	–	0,26	0,005

Turbine oils

Indicators	Method	Gazpromneft Turbine Oil F Synth EP		Gazpromneft Turbine Oil 32
Viscosity class		**32**	**46**	**32**
Kinematic viscosity at 40 °C, mm²/sec	ASTM D445	31,8	46,1	32,8
Kinematic viscosity at 100 °C, mm²/sec		5,8	7,6	5,4
Viscosity index	ASTM D2270	130	132	96
Flash point (COC), °C	ASTM D92	240	250	225
Pour point, °C	GOST 20287	-33	-25	-24
Acid number,mg KOH/g	GOST 11362	0,10	0,10	0,07
Corrosion on copper plates, points	ASTM D130	1b	1b	1b

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Indicators	Method	TP-22C mark 1	TP-3
Kinematic viscosity at 40 °C, mm²/sec	GOST 33	31,4	44,5
Kinematic viscosity at 50 °C, mm²/sec		21,3	–
Viscosity index	GOST 25371	95	90
Flash point (COC), °C	GOST 4333	215	228
Pour point, °C	GOST 20287	-15	-15
Acid number,mg KOH/g	GOST 11362	0,05	0,3
Stability to oxidation at 150 °C, 16 h and oxygen flow rate3 dm³/h:	GOST 981		
Mass fraction of sludge, %		0,004	–
Acid number,mg KOH/g		0,1	–
Volatile low-molecular acidity, mg KOH/g		0,03	–
Stability to oxidation	GOST 18136		
Mass fraction of sludge, %		–	0,005
Acid number,mg KOH/g		–	0,36
Demulsifying capacity, min	GOST 12068	1,7	2,3

Slideway oils

Indicators	Method	Gazpromneft Slide Way		
Viscosity class		**68**	**220**	**32**
Kinematic viscosity at 40 °C, mm²/sec	ASTM D445	68	220	32
Kinematic viscosity at 100 °C, mm²/sec		8,5	18,3	5,2
Viscosity index	ASTM D2270	93	91	90
Flash point (COC), °C	ASTM D92	249	257	200
Pour point, °C	GOST 20287	-23	-18	-20
Acid number,mg KOH/g	GOST 11362	0,5	0,5	0,5

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Oils for rolling mills

Indicators	Method	Gazpromneft Romil						Gazpromneft Romil EP 100
Viscosity class		**46**	**100**	**150**	**220**	**320**	**460**	**100**
Kinematic viscosity at 40 °C, mm²/sec	ASTM D445	46	100	150	220	320	460	100
Kinematic viscosity at 100 °C, mm²/sec		6,7	11,0	14,4	18,5	23,3	29,1	11,2
Viscosity index	ASTM D2270	95	94	93	93	91	90	97
Flash point (COC), °C	ASTM D92	238	246	250	256	273	288	284
Pour point, °C	GOST 20287	-14	-13	-12	-12	-11	-10	-14
Corrosion on copper plates, points	ASTM D130	1в	1в	1в	1в	1в	1в	1b
Demulsifying capacity, min	ASTM D1401	10	15	15	20	20	25	10

Indicators	Method	Gazpromneft I46PV	Gazpromneft I220PV	Gazpromneft I460PV	PS-28	P-40
Kinematic viscosity at 100 °C, mm²/sec	GOST 33	6,8	18,2	28,7	28,1	39,4
Viscosity index	GOST 25371	98	91	90	88	86
Flash point (COC), °C	GOST 4333	230	252	287	278	295
Pour point, °C	GOST 20287	-17	-16	-16	-15	-13
Acid number,mg KOH/g	GOST 11362	0,4	0,4	0,4	–	–
Sulfur mass fraction, %	GOST 1437	–	–	–	0,62	0,75
Cokeability, %	GOST 19932	0,1	0,3	0,5	–	1

Stationary Gas Engine Oils

Indicators	Method	Gazpromneft GEO 40
Viscosity class		**40**
Kinematic viscosity at 40 °C, mm²/sec	ASTM D445	120
Kinematic viscosity at 100 °C, mm²/sec		13,2
Viscosity index	ASTM D2270	104
Flash point (COC), °C	ASTM D92	230
Pour point, °C	ASTM D92	-15
Base number, mg KOH/g	ASTM D2896	5,7
Sulphated ash, %	ASTM D874	0,5

Paper machine oils

Indicators	Method	Gazpromneft PM Plus-220	Gazpromneft PM	
Viscosity class		**220**	**150**	**220**
Kinematic viscosity at 40 °C, mm²/sec	ASTM D445	220	150	220
Kinematic viscosity at 100 °C, mm²/sec		18,5	–	–
Viscosity index	ASTM D2270	91	92	91
Flash point (COC), °C	ASTM D92	264	258	280
Pour point, °C	GOST 20287	-17	-17	-18
Demulsifying capacity, min	ASTM D1401	10	10	10
Color on colorimeter, units.	ASTM D1500	4	–	–
Acid number,mg KOH/g	GOST 11362	–	0,2	0,2
Corrosion on copper plates, points	GOST 2917	–	1в	1в
	ASTM D130	1a	–	–

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Spindle oils

Indicators	Method	Gazpromneft Velocite Oil 2	Gazpromneft Spindle Oil-7	Gazpromneft Spindle Oil-10
Appearance	p. 7.3 of company standart 77820966-075-2018	Homogeneous transparent liquid with no visible foreign matter	Homogeneous transparent liquid with no visible foreign matter	Homogeneous transparent liquid with no visible foreign matter
Viscosity class		2	7	10
Sulfur mass fraction, %	GOST 1431	0,1	0,3	0,2
Acid number,mg KOH/g	GOST 5985	0,1	0,01	0,01
Tests of corrosive effect on the plate made of copper M1 or M-2 according to GOST 859	GOST 2917	Withstands	Withstands	Withstands
Flash point (COC), °C	GOST 6356	88	145	174
Pour point, °C	GOST 20287, method B	-60	-45	-40

Air tool oils

Indicators	Method	Gazpromneft Pneumo		
Viscosity class		**32**	**46**	**100**
Kinematic viscosity at 40 °C, mm²/sec	GOST 33	31,2	45,6	97,9
Viscosity index	GOST 25371	114	104	97
Flash point (COC), °C	GOST 4333	195	204	230
Pour point, °C	GOST 20287	-39	-33	-26

Form oils

Indicators	Method	Gazpromneft Formwork Oil C 10	Gazpromneft Form Oil 135
Kinematic viscosity at 40 °C, mm²/sec	ASTM D445	11,5	148,9
Flash point (COC), °C	ASTM D92	175	242
Pour point, °C	GOST 20287	-42	-28
Corrosion on copper plates, points	ASTM D130	2a	2a
Mechanical impurities, % wt %.	GOST 6370	None	None

Heat-transfer oils

Indicators	Method	Gazpromneft HTO 32
Flash point (COC), °C	ASTM D445	5,5
Pour point, °C	ASTM D92	232
Acid number,mg KOH/g	GOST 20287	-34
Кислотное число, мг KOH/г	GOST 11362	0,1
Water content, % wt..	GOST 2477	None
Mechanical impurities, %, wt %.	GOST 6370	None

Quenching oils

Indicators	Method	Thermoil-16	Thermoil-26
Kinematic viscosity at 40 °C, mm²/sec	ASTM D445	25	38
Viscosity index	ASTM D2270	93	92
Flash point (COC), °C	ASTM D92	210	226
Sulphated ash, %	GOST 1461	0,04	0,04
Saponification number, mg KOH/g	GOST 17362	0,2	0,2

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Transformer oils

Indicators	Method	Gazpromneft GK Mark 1	Gazpromneft GK Mark 2
Kinematic viscosity at 50 °C, mm²/sec	GOST 33	5,8	6
Kinematic viscosity at -30 °C, mm²/sec		299	334,8
Density at 15C kg/m3	GOST P 51069	829,5	831,8
Density at 20C kg/m3		826,0	828,3
Flash Point, PMCC, °C	GOST 6356	144	178
Pour point, °C	GOST 20287 method B or ASTM D97	-41	-47
Acid number,mg KOH/g	GOST 5985 or GOST 11362	0,01	0,01
Tangent of dielectric loss angle at 90 °C, %	GOST 6581 п. 2	0,08	0,11
Stability against oxidation(120 °C, 500 h, 150 mL/h):			
Total acid number, mg KOH/g	GOST R IEC 61125 method C or IEC 61125 method C	0,08	0,08
Mass fraction of sludge, %		0,002	0,002
Dielectric loss angle tangent at 90 °C, %		0,26	0,26
Stability against oxidation (155 °C, 14 h, 50 mL/min):	GOST 981		
Mass of volatile low molecular weight acids, mg KOH/g		0,014	0,012
Mass fraction of sludge, %		< 0,01	< 0,01
Acid number of oxidizing oil, mg KOH/g		0,09	0,08

Plasticizer oils

Indicators	Method	PN-6sh
Kinematic viscosity at 100 °C, mm²/sec	ASTM D445	35
Refractive index at 50 C	GOST 18995.2	1,54
Aniline point, °C	GOST 12329	67
Flash point (COC), °C	ASTM D92	265
Flow point, °C	GOST 20287	+25
Density at 20C kg/m3	ASTM D4052	964

Indicators	Method	Gazpromneft PM
Kinematic viscosity at 100 °C, mm²/sec	ASTM D445	5,5
Flash point (COC), °C	ASTM D92	222
Pour point, °C	GOST 20287	-16
Aniline point, °C	GOST 12329	99,5
Color on colorimeter, units.	ASTM D1500	1
Density at 20C kg/m3	ASTM D4052	873
Hydrocarbon composition, %::	ASTM D2140	
C_A		3
C_P		35
C_N		62

Indicators	Method	Gazpromneft Rubber Oil
Kinematic viscosity at 100 °C, mm²/sec	ASTM D445	30
Kinematic viscosity at 40 °C, mm²/sec		487
Refractive index at 20 C	ASTM D1747	1,4975
Hydrocarbon composition, %:	ASTM D2140	
C_A		7
C_P		23
C_N		70
Flash point (COC), °C	GOST 4333	281
Pour point, °C	GOST 20287	-14
Extract content of polycyclic aromatic hydrocarbons, %	IP 346	0,4
Color on colorimeter, units.	ASTM D1500	5
Benzo(a)pyrene (BaP) content,mg/kg.	DIN EN 16143	0,1
Total content of eight PAHs, mg/kg	DIN EN 16143	0,8

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Plasticizer oils

Indicators	Method	Gazpromneft Rubber Oil NT
Kinematic viscosity at 100 °C, mm²/sec	ASTM D445	22
Kinematic viscosity at 40 °C, mm²/sec		294
Refractive index at 20 C	ASTM D1218	1,4926
Hydrocarbon composition, %:	ASTM D2140	
C_A		6
C_P		26
C_N		68
Flash point (COC), °C	ASTM D92	268
Pour point, °C	ASTM D97	-14
Sulfur mass fraction, %	ASTM D6481	0,14
Extract content of polycyclic aromatic compounds, %	IP 346	0,6
Benzo(a)pyrene (BaP) content,mg/kg	DIN EN 16143	< 0,1
Total content of eight PAHs, mg/kg	DIN EN 16143	0,6
Viscosity-weight constant	ASTM D2140	0,810
Aniline point, °C	ASTM D611	118
Density at 15C kg/m3	ASTM D4052	894

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General purpose industrial oils

Indicators	Method	I-12A	I-20A	I-30A	I-40A	I-50A	IGP-18	IGP-30	IGP-38	IGP-49	IGP-72	IGP-91	IGP114	IGP152	Gazpromneft Circulation Oil 100	Axial oil Z grade	Axial oil L grade
Kinematic viscosity at 40 °C, mm²/sec	GOST 33	18	31,2	45,7	65,8	97,7	27	45,1	60,2	81,2	199,6	151,7	195,2	275	100	27,4	46,9
Viscosity index		–	–	–	–	–	95	91	91	92	90	91	88	88	91	–	
Flash point (COC), °C	GOST 4333	202	222	229	236	247	219	230	237	240	247	262	256	255	252	223	216
Pour point, °C	GOST 20287	-25	-25	-16	-15	-15	-19	-18	-18	-17	-17	-19	-17	-16	-20	-41	–
Acid number,mg KOH/g	GOST 11362	0,01	0,01	0,01	0,01	0,01	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	–	–
Ash, %	GOST 1461	0,005	0,005	0,005	0,005	0,005	0,12	0,12	0,12	0,12	0,12	0,12	0,12	0,12	–	–	–

Cooling lubricants

Indicators	Method	Gazpromneft Cutfluid EST	Gazpromneft Cutfluid Standard	Gazpromneft Cutfluid Standard LE	Gazpromneft Cutfluid Synthetic	Gazpromneft Cutfluid Synthetic LE	Gazpromneft Cutfluid Universal	Gazpromneft Cutfluid Universal LE	Gazpromneft Cutfluid AL	Gazpromneft Cleanfluid	Gazpromneft Cutoil 20	Gazpromneft Cutoil 30	Gazpromneft Cutoil 10 EP	Gazpromneft Cutoil 20 EP	Gazpromneft Cutoil 30 EP	GGazpromneft Cutoil 50 EP	Gazpromneft Cutoil GR 7	Gazpromneft Cutoil GR 10	Gazpromneft Pressoil D 60	Gazpromneft Formsynth EV 2	Gazpromneft Formsynth EV 1H
Coolant group		Water-miscible coolant group									Oil coolant group									Fast evaporating coolant group	
Appearance	Visually	Homogeneous transparent liquid with no visible foreign matter, opalescence is allowed	Homogeneous transparent liquid of brown color, opalescence is allowed	Homogeneous transparent liquid of brown color, opalescence is allowedt	Homogeneous transparent liquid with no visible foreign matter, opalescence is allowed	Homogeneous transparent liquid from yellow to brown color, opalescence is allowed					Homogeneous yellow colored liquid	Homogeneous transparent liquid from light yellow to light brown color, opalescence is allowed	Homogeneous transparent liquid with no visible foreign matter, opalescence is allowed	Homogeneous transparent liquid from light yellow to light brown color, opalescence is allowed		Homogeneous yellow colored liquid	Homogeneous transparent liquid without visible foreign matter	Transparent brown colored liquid		Homogeneous yellow colored liquid	Homogeneous colorless liquid without sediment or suspended matter
Kinematic viscosity at 40 °C, mm²/sec	GOST 33	62,4	31,2	63,9	6,4	6	41,5	77	60,6	–	18	30	10,5	21	30	51,3	6,2	10,1	58	2,6	1,24
Density at 20C kg/m3	GOST 3900	964	889	920	1 081	1 015	981	974	966	1 075	850	865	856	860	865	892	824	857	900	803	760
Hydrogen Index, 5% emulsion, pH	GOST 6243 п. 4	9,0	9,0	9,6	9,4	9,5	9,4	9,8	9,2	9,9	–	–	–	–	-	–	–	-	-	-	-
Refractive index		1,1	1,0	0,96	2,3	1,73	1,2	1,03	1,2	–	–	–	–	–	-	–	–	-	-	-	-
Flash point (COC), °C	GOST6356	–	–		–	–			–	–	182	200	185	200	200	200	158	179	192	90	-
Pour point, °C	GOST 20287 method B	–	–		–	–			–	–	-46	-40	–47	– 40	-40	–23	-46	–46	-	–30	-

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GREASES

Indicators	Method	Gazpromneft Grease Synth LX EP 2	Gazpromneft Premium Grease EP				Gazpromneft Grease LX EP		Gazpromneft Grease LTS		Gazpromneft Grease L EP					Gazpromneft Grease EP		Gazpromneft Grease L 2	Gazpromneft Grease L Moly EP 2	Gazpromneft Grease LTS Moly EP 2	Gazpromneft Premium Grease HD	Gazpromneft Grease HighSpeed EP 3	Gazpromneft Grease Nord Moly	Gazpromneft Offroad Grease CS 2	Gazpromneft Steelgrease CS		Gazpromneft Metalgrease AC	Gazpromneft Grease Reductor LTS EP 00	Gazpromneft Reductor Grease	Gazpromneft Смазка для буров	Gazpromneft Universal Grease	Litol-24 Gazpromneft Litol	CV-joint-4M Gazpromneft grease for CV-joint
			00	0	1	2	1	2	1	2	00	0	1	2	3	2	3								1	2								
Compliance with DIN 51502	DIN 51502	KPHC 2 N-50	KP 00 N-50	KP 0 N-50	KP 1 P-40	KP 2 P-40	KP 1 P-30	KP 2 P-30	KP 1 K-30	KP 2 K-30	KP 00 K-30	KP 0 K-30	KP 1 K-30	KP 2 K-30	KP 3 K-30	KP 2 K-40	KP 3 K-40	K 2 K-30	KPF 2 K-30	KPF 2 K-30	KPF 2 N-25	KP 3 N-40	KPF 0 K-50	KP 2 S-30	KP 1 S-30	KP 2 S-30	KPF 2 S-30	GP 00 K-40	KP 0 K-30	KP 2 K-30	KP 2 K-30	K 3 K-40	KPF 2 K-40
NLGI grade	ASTM D217	2	00	0	1	2	1	2	1	2	00	0	1	2	3	2	3	2	2	2	2	3	0	2	1	2	2	00	0	2	2	3	2
Thickener type		Lithium complex soap					Lithium-calcium soap.		Lithium soap.									Lithium soap.		Lithium-calcium soap.	Lithium complex soap			Calcium sulfonate				Lithium-calcium soap.			Lithium soap.		
Filler type		–	–				–		–		–					–		–	Molybdenum disulfide		–		Molybdenum disulfide	–	–	–		–	–	–	–	–	Molybdenum disulfide
Dropping point, °C	ASTM D566/ GOST 6793	> 250	> 220	> 235	> 250	> 250	> 250	> 250	> 190	> 190	> 170	> 170	> 180	> 190	> 190	200	200	> 190	> 190	> 190	> 250	290	> 250	> 300	300	> 300	> 250	> 170	> 180	> 180	> 190	> 185	190
Base oil		Synth..	Semi-synthetic				Mineral		Mineral									Mineral				Group III base oil		Mineral									
Base oil kinematic viscosity at 40 °C,mm²/sec	ASTM D445	100	120	120	120	120	220	220	220	220	160	160	160	160	160	70	70	160	160	220	320	45	20	>400	420	420	110	105	65	–	150	–	–
4-Ball Load Test, Weld Point, N	ASTM D2596/ DIN 51350 4/ GOST 9490	2 600	3 200	3 200	3 200	3 200	3 000	3 000	3 000	3 000	2 400	2 400	2 400	2 400	2 400	2 450	2 450	1 600	2 800	4 136	5 500	2 930	4 000	4 600	4 500	4 500	3 200	4 000	2 600	2 800	2 400	1 410	4 900
Four-Ball Wear, Scar mm	ASTM D2266/ DIN 51350 5/ GOST 9490	–	0,5	0,5	0,5	0,5	0,4	0,4	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,4	0,4	0,5	0,6	0,6	0,5	0,5	0,5	0,4	0,7	0,5	0,5	0,5	–	–

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