

Gazpromneft-Lubricants — a reliable partner and solutions provider for various industries

80 COUNTRIES —
SUPPLY GEOGRAPHY

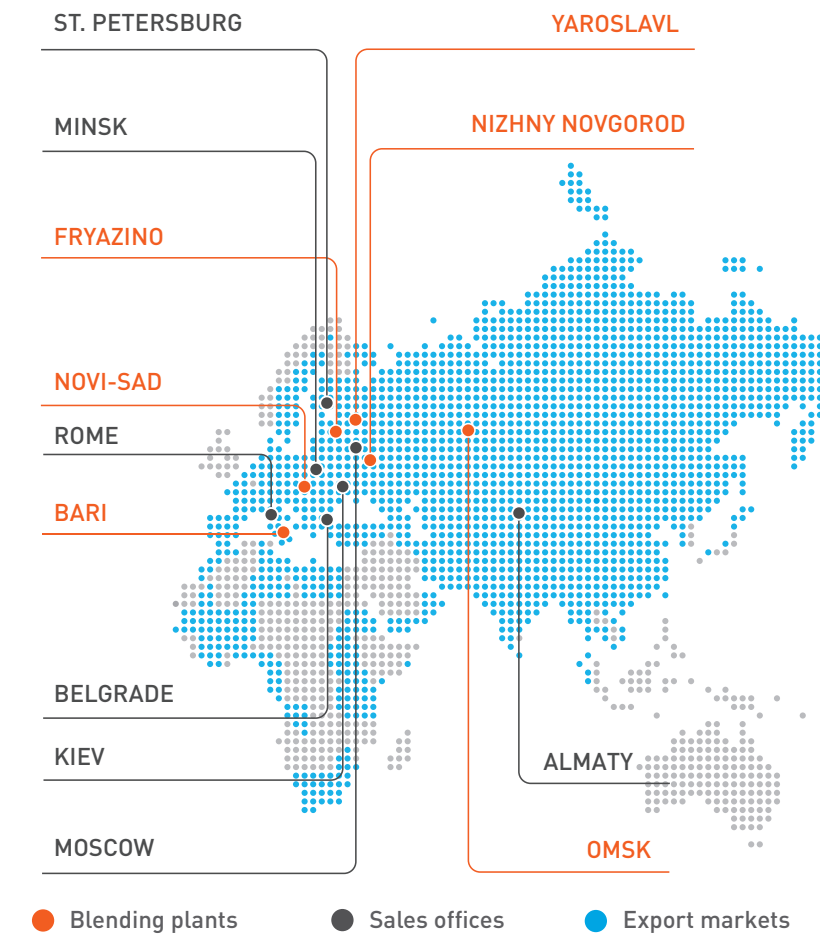
700 THOUSAND TONS
OILS, GREASES AND SERVICE
FLUIDS PER YEAR

POSITIONS WORLDWIDE:

Nº 17	GLOBALLY
Nº 7	ITALY
Nº 3	RUSSIA
Nº 2	BELARUS
Nº 1	KAZAKHSTAN
Nº 1	SERBIA

7 SALES OFFICES IN
RUSSIA, SERBIA,
BELARUS, UKRAINE AND
KAZAKHSTAN

6 BLENDING PLANTS
IN RUSSIA, ITALY AND
SERBIA



ACTIVITIES

- ATIEL membership
- G-Energy Service international network of the maintenance service centers
- Management system and production facilities comply to the requirements of international standards

SCOPE

- More than 300 distributors
- More than 950 products
- More than 500 OEM approvals

✓ ISO 9001, ISO 14001, ISO 50001,
OHSAS 18001, IATF 16949

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SLIDEWAY LUBRICANTS



Gazpromneft Slide Way - 68, 220



Gazpromneft Slide Way - 68, 220

Range of oils with improved resistance to “stick-slip” and water separation properties. Use of these slideway oils ensures high precision of parts processing. The oil maintains its performance

properties even in presence of water and extends service life of machine tools. Applicable for processing equipment involving metalworking fluids used for cutting and other machining operations.



Slideways



Excellent anti-wear properties



High quality mineral base stock



Outstanding protection against stick-slip motion



Good water separation

Application



Slideways*



Gear transmissions**



Hydraulic systems**

* - Gazpromneft Slide Way-68 — horizontal slideways, Gazpromneft Slide Way-220 — vertical slideways.
** - according to specifications

Physical and chemical properties

Indicator	ISO Viscosity grade		Method
	68	220	
Kinematic viscosity at 40 °C, mm²/s	68	220	ASTM D 445
Kinematic viscosity at 100 °C, mm²/s	8,5	18,3	
Viscosity index	93	91	ASTM D 2270
Open Cup Flash Point °C	249	257	ASTM D 92
Pour Point, °C	-23	-18	GOST 20287
Total Acid Number, mg KOH/g	0,5	0,5	GOST 11362
Density at, 20 °C, g/cm³	0,880	0,891	ASTM D 4052

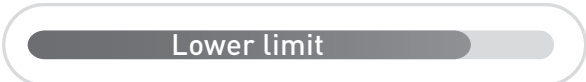


Excellent anti-wear protection



Extended life of equipment

Load stage, test FZG



0 2 4 6 8 10 12

Protection against mechanical wear of any unit: slideways, gear transmissions and hydraulic systems.

● Gazpromneft Slide Way

● DIN 51524-2 (HLP)

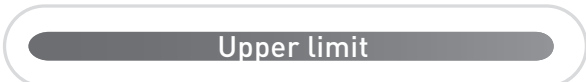


Enhanced anti stick-slip properties



Ensure high precision and cleanliness in final processing of parts

Fives Cincinnati Stick-slip Test



0,7 0,75 0,8

Ratio: Friction static / Friction dynamic

Gazpromneft Slide Way prevents stick-slip and promotes smooth sliding movement of slideways and guides.

● Gazpromneft Slide Way

● DIN 51524-2 (HLP)



Perfectly separates water



Capable of operation in the presence of water

ISO 6614



0 10 20 30

Water separation time, minutes

Gazpromneft Slide Way effectively separates water thereby maintaining service properties of the lubricant and protecting equipment from rust and corrosion.

● Gazpromneft Slide Way

● DIN 51524-2 (HLP)



Reliable corrosion prevention



Oxidation stability



Compatibility with metalworking equipment alloys and elastomers



Compatibility with metalworking equipment alloys and elastomers

Reduced unscheduled maintenance chance



Reduced formation of acids that corrode machine parts

Extended service life of the machine and fluid



No detrimental effects on the equipment and its elements

Reliable operation of the machine tools

Gazpromneft Slide Way field trials

SLIDEWAYS

Equipment: POWERTURN 1600, CNC vertical lathe and boring mill; horizontal slideways.

Summary of the experience after switching over to **Gazpromneft Slide Way-68:**

- Reduced equipment maintenance costs.
- Completely eliminated stick-slip effect.
- Reduced slideway and sliding pad wear.
- Lubricant maintained its properties well over minimum requirements during the entire drain interval. Continued operation and extended oil drain intervals are permissible.

GEAR TRANSMISSION*

Gazpromneft Slide Way-68:

- Provided problem-free machine tool operation and protection against corrosion even at the presence of water.
- Provided outstanding water separation. De-emulsifying properties allowed to separate water that contaminated one of the samples.

* Round bar stripping machine, 24/7 operation.
Even higher requirements to prevent stick-slip movements.

