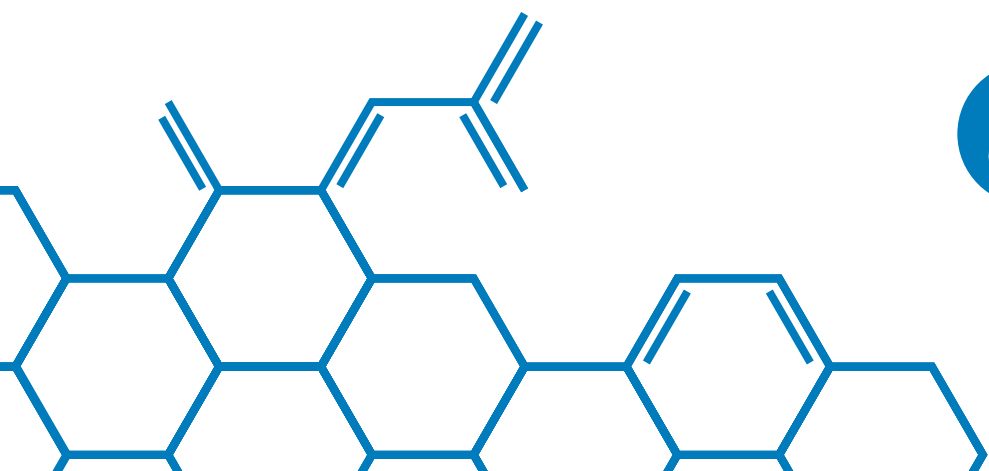


# REFINING

PRODUCT CATALOGUE  
2019





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PRODUCT CATALOGUE  
2019



## ABOUT US

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Limited Liability Company Gazprom neftekhim Salavat is Russia's major petrochemical complex situated in the Republic of Bashkortostan in the town of Salavat.

Set up in 1948 as Industrial Complex No. 18, in 2011, the Company was integrated into the Gazprom system. On October 1, 2016, the Company was reorganized in the form of transformation into LLC "Gazprom neftekhim Salavat".

Gazprom neftekhim Salavat is one of the leading companies of Gazprom Group in oil refining, petrochemistry and mineral fertilizers production.

Gazprom neftekhim Salavat comprises the Oil Refinery, Gas & Chemical Plant and the Monomer Plant.

The Company carries out a full cycle of crude hydrocarbons processing and produces more than 100 different products, over 50% of which are bulk products including motor gasoline, gasoil, fuel oil, road bitumen, polystyrene, low density polyethylene, ammonia, urea etc.

The Company takes one of the leading positions in the domestic production of a range of products including butyl alcohols, plasticizers and styrene.

The products are exported to all the federal subjects of the Russian Federation. The export reach covers over 50 CIS and non-CIS countries including China, Brazil, the UK, Western European countries and the Baltic states.

## REFINING

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Gazprom neftekhim Salavat is reputable for being a responsible producer and a reliable supplier of goods of its own production.

High quality of oil refining and petrochemical products and mineral fertilizers is confirmed by certificates of conformity to ISO 9001 and ISO 14001, the international standards of quality and environmental safety.

The Oil Refinery of Gazprom neftekhim Salavat is the main link in the Company's production chain.

The Company is capable of processing up to 10 million tons of crude hydrocarbons annually.

The list of major processes of the Oil Refinery comprises:

- primary processing of oil and stable gas condensate;
- catalytic cracking;
- catalytic reforming;
- diesel fuel hydrotreatment;
- aromatics production;
- fuel oil and bitumen production.

In accordance with the stringent requirements to motor gasolines regarding the content of sulphur, benzene, aromatics and olefins, Gazprom neftekhim Salavat accelerates the upgrade aimed at improving the quality of gasoline and diesel fuel, independently monitors all fluctuations in the petrochemical market and follows new technical regulations.

The quality of the produced fuel conforms to the highest Euro 5 ecological class.



GASOLINE UNLEADED

GOST 32513-2013, TR TS 013/2011

PRODUCTION

By catalytic cracking and reforming.

APPLICATIONS

As a fuel in engines designed to run on unleaded gasoline.

PROPERTIES

property	value	
	AI-92	AI-95
Octane Number, min RON/ MON	92.0 / 83.0	95.0 / 85.0
Lead, mg/dm³, max	negative	
Resins, washed with solvent, mg/dm³ (mg/100 cm³) of gasoline, max	50 (5)	
Induction Period, minutes, min	360	
Benzene, vol %, max	1	
Sulphur, wt %, mg/kg, max	10	
Hydrocarbons, vol %, max		
– olefins	18.0	
– aromatics	35.0	
Oxygen, wt %, max	2.7	
Oxygenates, vol %, max		
– methyl alcohol	negative	
– ethyl alcohol	5.0	
– isopropyl alcohol	10.0	
– isobutyl alcohol	10.0	
– tert-butyl alcohol	7.0	
– ethers (C <sub>5</sub> plus)	15.0	
– other oxygenates (final boiling point: 210°C, max)	10.0	
Copper-Plate Test	Class 1	
Appearance	Bright/Clear	
Manganese, mg/dm³, max	negative	
Iron, mg/dm³, max	negative	
Monomethylaniline, vol %, max	negative	
Density @ 15°C, kg/m³, within	725.0–780.0	

SAFETY REQUIREMENTS

Marginally hazardous substance, hazard class 4. Narcotic effect. Flammable liquid.

TRANSPORT

Tank trucks & rail tank cars, pipelines.



DIESEL FUEL EURO

GOST 32511-2013 (EN 590:2009), TR TS 013/2011

PRODUCTION

By oil processing.

APPLICATIONS

As a fuel for diesel and gas turbine engines of surface and water-borne vehicles.

PROPERTIES

property	value
Cetane Number, min	51.0
Cetane Index, min	46.0
Density @ 15°C, kg/m³, within	820.0 – 845.0
Polycyclic aromatic hydrocarbons, wt %, max	8.0
Sulphur, wt %, mg/kg, max	10.0
Flash Point, closed cup, °C, min	55
Coking of 10% distillation residue, wt %, max	0.3
Ash, wt %, max	0.01
Water, wt %, mg/kg, max	200
Total contamination, mg/kg, max	24
Corrosion, Copper-Plate Test (3 h @ 50°C), scale units	Class 1
Oxidation Stability:	
– total residue, g/m³, max	25
– hours, min	20
Lubricating property: wear scar diameter, corrected (wsd 1.4) @ 60°C, µm, max	460
Kinematic Viscosity @ 40 °C, mm²/sec, within	2.000 – 4.500
Distillation:	
– Recovered @ 250°C, vol %, max	65
– Recovered @ 350°C, vol %, min	85
– Distillation temperature of 95% vol, °C, max	360
Fatty acid methyl esters, vol %, max	7.0
Filtration Coefficient, °C, max:	
– Summer, Grade C	minus 5
– Summer, Grade D	minus 10
– Interseasonal, Grade E	minus 15
– Winter, Class 2	minus 32
– Winter, Class 3	minus 38
– Arctic, Class 4	minus 44

SAFETY REQUIREMENTS

Marginally hazardous substance, hazard class 4. Irritant to human mucosa and skin, causes their lesions and chronic diseases.  
Flammable liquid.

TRANSPORT

Tank trucks & rail tank cars, pipelines.



# MIDDLE DISTILLATE OF SULFUROUS GAS CONDENSATE

STO 05766575-129-2016  
Amendments No. 1, 2, 3, 4

PRODUCTION

From petrochemical products and gas condensate.

APPLICATIONS

As a fuel for marine high-speed and medium-speed diesel engines, power plants and for export that can be further processed.

PROPERTIES

property	value
Appearance	Liquid from light–yellow to dark–brown
Distillation:	
– Initial boiling point, °C, min	140
– Distillation temperature of 10% vol, °C	Not specified, specification required
– Distillation temperature of 90% vol, °C	Not specified, specification required
– Recovered @ 360°C, %	Not specified, specification required
Kinematic Viscosity @ 40°C, mm²/sec, max	11.0
Flow Point, °C, max	
– winter	minus 6
– summer	0
Flash Point, closed cup, °C, min	62
Sulphur, wt %, max:	
Type I	0.1
Type II	0.2
Type III	1
Water, %, max	0.1
Mechanical impurities, wt %	Not specified, specification required
Density @ 15°C, kg/m³, max	893
Density @ 20°C, kg/m³, max	Not specified, specification required

SAFETY REQUIREMENTS

Marginally hazardous substance, hazard class 4. Flammable liquid.

TRANSPORT

Rail tank cars



AVT OIL FUEL

STO 05766575-144-2014  
Amendments No. 1, 2, 3

PRODUCTION

From petrochemical products and gas condensate

APPLICATION

For processing on catalytic cracking and hydrocracking units or in other secondary specific processing, as well as a boiler fuel.

PROPERTIES

property	value		
	Type I	Type II	Type III
Density @ 15°C, kg/m³, within	873.4 – 953.3		
Density @ 20°C, kg/m³	Not specified, specification required		
Kinematic Viscosity @ 50°C, mm²/sec, within	80.0	100.0	120.0
Kinematic Viscosity @ 100°C, mm²/sec, within	Not specified, specification required		
Sulphur, wt %, max	3.0		
Freezing Point, °C, min	12		
Flash Point, closed cup, °C, min	90		
Coking, %, max	0.5	0.6	0.8
Vanadium, wt %, max	0.0005		
Recovered up to 350°C, vol %	Not specified, specification required		

SAFETY REQUIREMENTS

Marginally hazardous substance, hazard class 4. Flammable liquid.

TRANSPORT

Rail tank cars.



ROAD BITUMEN FEEDSTOCK

STO 00151807-011-2009

Amendments No. 1, 2, 3, 4

PRODUCTION

As atmospheric vacuum distillation residue of high-sulphurous, resinous oils like those of Romashkino and West Siberian oil fields.

APPLICATIONS

For national economic needs and export.

PROPERTIES

property	value	
	SB 20/40	SB 40/60
Relative Viscosity @ 80°C, 5 mm in diameter, s	20–40	41–60
Flash Point, open cup, °C, min	190	200
Water, wt %	traces	traces
Softening Point, ring & ball, °C, min	20	25
Density @ 20°C, g/cm³, within	0.970–0.995	0.980–1.000

SAFETY REQUIREMENTS

Marginally hazardous substance, hazard class 4. Flammable substance.

TRANSPORT

Tank trucks and rail tank cars.



ROAD BITUMEN FEEDSTOCK

STO 05766575-174-2018

PRODUCTION

By atmospheric vacuum distillation.

APPLICATIONS

For industrial use.

PROPERTIES

property	value	
	SDB 60/80	SDB 80/120
Relative Viscosity @ 80°C, 5 mm in diameter, s	60–80	81–120
Flash Point, open cup, °C, min	210	210
Water, wt %	traces	traces
Softening Point, ring & ball, °C, min	25	25
Density @ 20°C, g/cm³, within	0.990–1.010	0.990–1.010
Freezing point, °C	Not specified	Not specified

SAFETY REQUIREMENTS

Marginally hazardous substance, hazard class 4. Vapours at high concentrations have narcotic effect by inhalation.  
Flammable liquid.

TRANSPORT

Tank trucks and rail tank cars.



# ROAD BITUMEN

## GOST 22245-90

### Amendment No.1

PRODUCTION

By oxidation or compounding of straight distillation and selective separation products (deasphalted (SDA) residues, solvent extracts) or as straight distillation residue.

APPLICATIONS

As a cementing material in road and airfield pavement construction and repair.

PROPERTIES

property	value	
	BND 60/90	BND 90/130
Depth of needle penetration, 0.1 mm: @ 25°C, within @ 0°C, min	61–90 20	90–130 28
Softening Point, ring and ball, °C, min	47	43
Extensibility, cm, min: @ 25°C @ 0°C	55 3.5	65 4.0
Brittle Point, °C, max	minus 15	minus 17
Flash Point, °C, min	230	230
Softening Point change after heating, °C, max	5	5
Penetration Ratio	minus 1.0 to plus 1.0	minus 1.0 to plus 1.0

SAFETY REQUIREMENTS

Marginally hazardous substance, hazard class 4. Flammable substance.

TRANSPORT

Bitumen tank wagons, transit bitumen carriers and spraying machines.



ROAD BITUMEN

GOST 33133-2014

PRODUCTION

By oxidation or compounding of straight distillation and selective separation products (deasphalted (SDA) residues, solvent extracts) or as straight distillation residue.

APPLICATIONS

As a cementing material in construction and repair of road surfaces and beds as well as a production basis for modified bitumens and bitumen emulsions.

PROPERTIES

property	value	
	BND 70/100	BND 100/130
Depth of needle penetration, 0.1 mm: @ 25°C, within @ 0°C, min	71–100 21	101–130 30
Softening Point, ring and ball, °C, min	47	45
Extensibility, cm, min: @ 25°C @ 0°C	62 3.7	70 4.0
Brittle Point, °C, max	minus 18	minus 20
Flash Point, °C, min	230	230
Mass change after aging, %, max	0.6	0.7
Softening Point change after aging, °C, max	7	7
Brittle Point after aging, °C, max	minus 15	minus 17
Solubility, %, min	99.0	99.0
Paraffin wax, %, max	3.0	3.0
Penetration Ratio	minus 1.0 to plus 1.0	minus 1.0 to plus 1.0

SAFETY REQUIREMENTS

Marginally hazardous substance, hazard class 4. Flammable substance.

TRANSPORT

Bitumen tank wagons, transit bitumen carriers and spraying machines.



FUEL OIL (MAZUT) M-100

GOST 10585-2013, TR TS 013/2011

PRODUCTION

By processing of primary and secondary distillation products and natural gas condensate.

APPLICATIONS

As fuel for vehicles, stationary boiler plants and process units.

PROPERTIES

property	value
Kinematic Viscosity @ 100°C, mm²/sec, max	50.00
Ash, %, max, for mazut	
– low-ash	0.05
– ashy	0.14
Mechanical impurities, wt %, max	1.0
Water, wt %, max	1.0
Water-soluble acids & alkali	negative
Sulphur, wt %, max	0.50
	1.00
	1.50
	2.00
	2.50
	3.00
	3.50
Hydrogen Sulphide, ppm (mg/kg), max	10
Flash Point, open cup, °C, min	110
Pour Point, °C, max	25
Lower (net) Heat Value, as dry fuel, kJ/kg, min, for mazut with sulphur, %	
0.50, 1.00, 1.50, 2.00	40530
2.50, 3.00, 3.50	39900
Density @ 15°C, kg/m³	Not specified, specification required
Recovered up to 350°C, vol %, max	17

SAFETY REQUIREMENTS

Marginally hazardous substance, hazard class 4. Flammable liquid.

TRANSPORT

Rail tank cars.



GAS CONDENSATE DISTILLATE

STO 05766575-111-2010

Amendments No. 1, 2, 3, 4

PRODUCTION

By processing of gas condensate

APPLICATIONS

For industrial use

PROPERTIES

property	value	
	Grade A	Grade B
Density @ 15°C, kg/m³, max	650 – 749	Not specified, specification required
Density @ 20°C, kg/m³, max	650 – 749	Not specified, specification required
Saturated Vapor Pressure, psi (Pa), max	12.5 (66661)	2.9 (20000)
Sulphur, max:		
Type I, wt % (ppm)	0.05 (500)	0.001 (10)
Type II, wt % (ppm)	0.08 (800)	–
Sour Sulphur, max:		
Type I, wt % (ppm)	0.02 (200)	0.02 (200)
Type II, wt % (ppm)	0.04 (400)	0.04 (400)
Distillation:		
– Initial boiling point, °C, min	30	90
– Final boiling point, °C, max	195	230
– Distillation temperature of 90% vol, °C	Not specified, specification required	
Paraffins, vol %, min	60	–
Aromatics, max		
vol %	16	–
wt %	–	Not specified, specification required
Unsaturated hydrocarbons (olefins), wt %, max	1.0	2.0
Oxygen-containing additives (Oxygenates), max, ppm	50	–
Mechanical impurities & water	negative	negative
Appearance	Bright / Clear	Bright / Clear

SAFETY REQUIREMENTS

Grade A: marginally hazardous substance, hazard class 4. Grade B: moderately hazardous substance, hazard class 3. Narcotic effect. Highly inflammable liquid.

TRANSPORT

Tank trucks and rail tank cars.



INDUSTRIAL SULPHUR BLOCK

GOST 127.1-93

PRODUCTION

In treatment of natural gas, coker gas or waste gases of oil and shale processing.

APPLICATIONS

For production of sulphuric acid, carbon sulfide, dyes, in pulp-and-paper, textile and other industries.

PROPERTIES

property	value				
	grade 9998	grade 9995	grade 9990	grade 9950	grade 9920
Sulphur, wt %, min	99.98	99.95	99.90	99.50	99.20
Ash, wt %, max	0.02	0.03	0.05	0.2	0.4
Organic substances, wt %, max	0.01	0.03	0.06	0.25	0.5
Acids, as sulphuric acid, wt %, max	0.0015	0.003	0.004	0.01	0.02
Arsenic, wt %, max	0.0000	0.0000	0.000	0.000	0.03
Selenium, wt %, max	0.000	0.000	0.000	0.000	0.04
Water, wt %, max	0.2	0.2	0.2	0.2	1.0
Mechanical impurities (paper, wood, sand, etc.)	negative	negative	negative	negative	negative

SAFETY REQUIREMENTS

Marginally hazardous substance, hazard class 4. Causes eye and upper respiratory tract mucosa inflammation, skin irritation, gastrointestinal diseases. Flammable. Explosive dust.

TRANSPORT

In bulk, bottom door gondola wagons.

## INFORMATION FOR PARTNERS

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In case you are interested in purchasing our refined products, please, send us an application listing the following:

1. Product name
2. Scope of delivery
3. Price / pricing conditions
4. Delivery basis
5. Delivery destination (railway station)
6. Delivery period
7. Transport
8. Payment terms

The application should be sent to the attention of Commercial Director, Gazprom neftekhim Salavat by fax: +7(3476) 39–21–04 or e-mail: [marketing@snos.ru](mailto:marketing@snos.ru)

The application should be signed by an authorized person and authenticated with the company seal.

Gazprom neftekhim Salavat reserves a right to disregard unduly executed applications submitted in any other form than written.

## CONTACTS

Gazprom neftekhim Salavat

Address: 30 Molodogvardeitsev St., Salavat, 453256, Republic of Bashkortostan, Russia

Commercial Director

+7 (3476) 39–17–72 (Russian)

Commercial Department

Export: +7 (3476) 39–56–15, Domestic market: +7 (3476) 39–11–78

Fax: +7 (3476) 39–53–98

Marketing Department

+7 (3476) 31–82–16



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