

H3CM 


Group
of Companies
"Titan"

PRODUCT CATALOG

Lubricants for oil and gas
industry

WE CREATE CONDITIONS FOR GROWTH



Group of companies “Titan”

*One of the biggest companies of Siberia and one of the key investors of Omsk Region.
The company was founded in 1989 by Mikhail Sutyaginskiy.*

Includes around 20 enterprises of petrochemical and agricultural business and infrastructure companies.

The main manufacturing site of the Group is located in Omsk Region; the affiliates and the member companies are represented in the Regions of Russia (Moscow, Saint-Petersburg, Novochoerkassk, Ufa and others) and CIS countries. The number of employees of the Group is more than 4500 people.

Novochoerkassk lubricant production plant, LLC

The main production site of Novochoerkassk lubricant production plant consists of technological processing units for production of greases and fluids for different industries: machine building, metallurgy, equipment engineering, automotive and railway transport, metalworking, petrochemical and defense industry. The manufacturing technology comprises semi-continuous and continuous procedures, which allow to release more than 12 000 tons of grease per year.

The plant makes use of a **unique technology** of dry boiling-off, which allows to considerably reduce production costs and to improve the quality of the end-product. The manufacturing technology is almost waste free due to enclosed recycling circuit.

The quality of the end product is the key business benefit of Novochoerkassk lubricant production plant. Quality control is carried out on every stage of production by QC department based on the testing laboratory which is equipped to meet all necessary modern test method requirements.

The Research Laboratory is the center of research work aiming to develop the product portfolio and to find effective production technologies.

Product portfolio includes greases and fluids based on mineral and synthetic oils – engine and transmission oils; hydraulic fluids; greases; metalworking fluids; release agents; friction modifiers and drilling fluid components. The product range manufactured by Novochoerkassk lubricant production plant is certified and approved by Research Institutes - ROSNITI and VNIINP.

Address: 346413, 1V, Kharkovskoye shosse, Novochoerkassk, Rostov Region, Russia

Tel.: +7 (8635) 21-22-54 (Novochoerkassk), +7 (495) 627-72-82 (Moscow)

Fax: +7 (495) 627-72-84 (Moscow)

E-mail: info@titan-lub.ru

www.titan-lub.ru



MULTIPURPOSE GREASES

Product name	NOVA 150...220 EP	NOVA 100 Li-Ca	LITHOL-24
Thickener	Lithium soap	Lithium-calcium soap	Lithium soap
NLGI	1; 2; 3	1; 2; 3	3
Welding load, N	2800	1950	1410
Base oil viscosity at 40°C, mm²/s	150-220	110	110
Operating temperature range, °C	-30...+120	-40...+120	-30...+120
Main properties	Multipurpose grease for rolling and plain bearings with EP additives, for road and construction machinery and industrial equipment. Reduces friction and wear especially in friction units subject to medium and high loads.	Multipurpose grease for rolling and plain bearings of vehicles and industrial equipment. The properties of lithium-calcium soap show good pumpability, high adhesion and water resistance.	Multipurpose water resistant grease. Features the advantages of lithium grease, demonstrates exceptional shear stability, excellent sealing properties, resistant to moisture and water.
Meets the requirements	DIN 51502 KP(NLGI)K-30 ISO 6743 L-XCCEB (NLGI)	DIN 51502 K(NLGI)K-40 ISO 6743 L-XDCEA(NLGI)	DIN 51502 K(NLGI)K-30 ISO 6743 ISO-L-XCCEA (NLGI)

Package

Drum 180 kg, bucket 18 kg



THREAD GREASES

Product name	ORION 111	ORION 112
Thickener	Lithium soap (Pb, Zn, Cu)	Lithium soap (Pb, Zn, Cu)
NLGI	0; 1; 2	1; 2
Coefficient of friction, μ	1.2	1.3
Application at -40°C	Applicable by brush	Applicable by brush
Operating temperature range, $^{\circ}\text{C}$	$-45\dots+180$	$-40\dots+150$
Main properties	Designed for sealing and locking of rounded and buttress thread of conductor pipe and pumping and compression pipe. Can be used on normal and cold resistant pipes, as well as for H ₂ S and CO ₂ corrosion resistant pipes. The grease can be applied by brush or spatula and via centralized lubrication system.	Designed for sealing and locking of rounded and buttress thread of conductor pipe and pumping and compression pipe, for various diameter pipes operating under high pressure. Can be used on normal and cold resistant pipes, as well as for H ₂ S and CO ₂ corrosion resistant pipes. The grease can be applied by brush or spatula and via centralized lubrication system.
Meets the requirements	ISO 13678/API 5A3 Complies with The Safety regulation requirements of Customs Union 030/2012.	ISO 13678/API 5A3 Complies with The Safety regulation requirements of Customs Union 030/2012.

Package

Drum 180 kg, bucket 18 kg

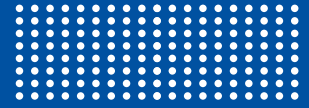


SPECIALTY THREAD SEALING GREASES

Product name	ОРИОН 131 (ЭКО)	ОРИОН 114 ZN 50	ОРИОН 116
Thickener	Lithium soap	Lithium soap (Zn, Cu)	Lithium soap (Cu – 21%)
NLGI	0; 1; 2	0; 1; 2	1; 2
Coefficient of friction, μ	1.7	1.1	1.1
Application at $-40\text{ }^{\circ}\text{C}$	Applicable by brush	Applicable by brush	Applicable by brush
Operating temperature range, $^{\circ}\text{C}$	$-50\dots+200$	$-50\dots+180$	$-50\dots+200$
Main properties	<p>The grease is manufactured without metal particles, designed for the service pipe assembling, manufactured from steel, low temperature carbon steel, stainless steel.</p> <p>Three grades are available including improved performance type.</p>	<p>Designed for sealing and locking of rounded and buttress thread of conductor pipe and pumping and compression pipe, for various diameter pipes operating under high pressure. Shows high protecting properties, good anti-wear and antifriction qualities. Provides good sealing capacity of high pressure pipes.</p>	<p>Designed for sealing and locking of rounded and buttress thread of conductor pipe and pumping and compression pipe. The grease shows excellent results on coated threaded pipe of leak-tight gas pipes, of very leak-tight «metal-metal» threads on various diameter pipes operating under high pressure.</p>
Meets the requirements	<p>ISO13678/API 5A3</p> <p>Complies with The Safety regulation requirements of Customs Union 030/2012.</p>	<p>ISO13678/API 5A3</p> <p>Complies with The Safety regulation requirements of Customs Union 030/2012.</p>	<p>ISO13678/API 5A3</p> <p>Complies with The Safety regulation requirements of Customs Union 030/2012.</p>

Package

Drum 180 kg, bucket 18 kg



SPECIALTY PRODUCTS FOR CENTRALIZED LUBRICATION SYSTEMS

Product name	NOVA ARCTIC 35	NOVA ARCTIC 100
Thickener	Lithium soap	Lithium soap
NLGI	0; 1; 2	1; 2
Welding load, N	3150	3150
Base oil viscosity at 40 °C, mm²/s	35...40	110
Operating temperature range, °C	-50...+100	-50...+120
Main properties	Series of specially designed greases featuring good pumpability under extremely low temperatures. Manufactured based on a mixture of high quality low viscosity oils, thickened with lithium soap, contains high performance additive package and solid lubricants.	Series of specially designed greases featuring good pumpability as an all-season grease. Manufactured based on a mixture of synthetic oils, thickened with lithium soap, contains high performance additive package and solid lubricants.
Meets the requirements	DIN 51502 KPF(NLGI)E-50 ISO 6743 L-XEBA (NLGI)	DIN 51502 KPFHC(NLGI)K-50

Package

Drum 180 kg, bucket 18 kg



TECHNOLOGICAL LIQUID FOR OIL-BASED MUD PREPARATION

The technological liquid TITAN

The technological liquid TITAN – is a complex multicomponent dispersion system, designed for optimization of reservoir properties during drilling and well servicing.

Product name	TITAN 2VV	TITAN 2VV(2)	TITAN 4VI
Kinematic viscosity at 40°C, mm²/s	3.8	2.7	6.7
Density at 20°C, kg/m³	828	820,4	836
Flash point in open-cup, °C	90	90	130
PH	6.2	6	7
Operating temperature range, °C	-50...+180	-60...+100	-60...+150
Aniline point, °C, min	80	80	80
Aromatic hydrocarbon content, % max	3	3	3

The technological liquids of TITAN series can be manufactured according to the individual requirements of a customer according to required parameters.

Package

Drum 180 kg, container 830 kg

Lubricating additive TITAN-ECO

Lubricating additive TITAN-ECO - is an oil-based brownish liquid, consisting of surfactants and additives improving anti-wear and anti-corrosion properties.

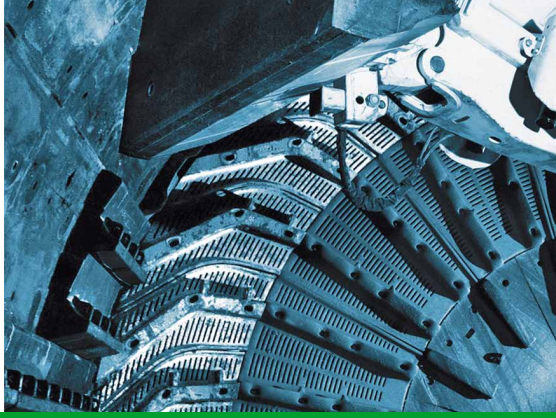
Application: designed for additivation into fresh-drilling mud and salt drilling mud during drilling of vertical and directed well pads of oil and gas wells.

Lubricating additive effectively reduces friction coefficient, considerably reduces the risk of differential sticking, eases the motion of drilling tool, extends operating life of drilling bids, prevents foam formation. Besides the improvement of technical features, it also improves the technological features of drilling mud.

Recommended for water based drilling mud preparation by adding 0,3 – 3% of lubricating additive. Can be added directly to drilling mud.

Package

Drum 180 kg, container 830 kg



SPECIAL LUBRICANTS FOR OPEN GEARS

Product name	POLAR 700 OG	POLAR 1500 OG	POLAR 3500 OG 0	POLAR ULTRA 5M		
Thickener	Aluminium complex soap	Aluminium complex soap	Aluminium complex soap	Calcium sulfonate complex soap		
NLGI	1	1	0	0	1	2
Welding load, N	6800	6800	6800	6200	6200	6200
Base oil viscosity at 40°C, mm²/s	700	1500	3500	150	150	150
Operating temperature range, °C	-50...+120	-30...+140	-30...+120	-45...+140	-35...+140	-30...+140
Main properties	Special liquid lubricant for open gears and swing bearing of excavator based on special high viscosity adhesive oil and solid lubricants, meets the requirements of OEM - P&H 520. Recommended for operating temperature range from -55°C to +10 °C.	Special liquid lubricant for open gears and swing bearing of excavator. Can be pumped via centralized lubrication system within wide temperature range from -35°C to +140°C.	Special liquid lubricant for open gears of scraper excavators and shovel excavators, based on special high viscosity adhesive oil and solid lubricants and aluminum complex soap with solid lubricant content.	Special grease based on calcium sulfonate complex soap and naphthenic oil for rolling and plain bearings of vehicles and industrial equipment. Recommended for lubrication of friction units, working under high loads and slow speed.		
Meets the requirements	DIN 51502 OGX1K-50	DIN 51502 OGF1K-35	DIN 51502 OGF0N-10	DIN 51502 KPF(NLGI)P-45 ISO 6743 ISO-L-XCCEA2		

Package

Drum 180 kg, bucket 18 kg



ENGINE OILS

Product name	Standard	Density, g/ml	Viscosity, cSt at 40 °C	Flash point, °C	Pour point, °C
NORDSTAR ARCTIC 0W-40	Cat ECF-3 API CJ-4/CI-4 PLUS/CI-4/CH-4/SM	0.85	89	260	-40
NORDSTAR DEO 10W-30	Cat ECF-2 API CI-4/CH-4/SL	0.87	76	222	-36
NORDSTAR DEO 15W-40	Cat ECF-2 API CI-4/CH-4/SL ACEA E5/B3/A2	0.88	103	230	-30

TRANSMISSION OILS

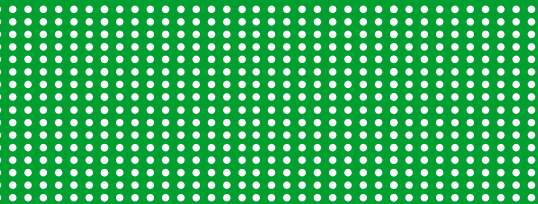
Product name	Standard	Density, g/ml	Viscosity, cSt at 40 °C	Flash point, °C	Pour point, °C
TRIBOSTAR TM-4	API GL-4 SAE 75W-80 75W-85 75W-90 80W	0.88	32-68	245	-30
TRIBOSTAR TM-5	API GL-5 SAE 75W-90 80W-90 80W-140 85W-140	0.88	32-68	245	-30

HYDRAULIC OILS

Product name	Type	Density, g/ml	Viscosity, cSt at 40 °C	Flash point, °C	Pour point, °C
TITAN HFDU	Fire resistant hydraulic fluid	0.92	32-68	310	-30
TITAN HFC	Fire resistant hydraulic fluid	1.072	32-68	—	-50
TITAN HM TITAN HLP TITAN HZF TITAN HLPD	Hydraulic oil	0.88	32-68	245	-30

Package

Drum 180 kg, bucket 18 kg



H3CM 



**Novocherkassk lubricant production plant
Limited liability company**

SALES IN RUSSIA AND ABROAD:

tel. +7 (495) 627-72-82
e-mail: atitov@titan-lub.ru
www.titan-lub.ru