

H3CM 


Group
of Companies
"Titan"

PRODUCT CATALOG

Lubricants for mining
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, Novocherkassk, Ufa and others) and CIS countries. The number of employees of the Group is more than 4500 people.

Novocherkassk lubricant production plant, LLC

The main production site of Novocherkassk 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 Novocherkassk 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 Novocherkassk lubricant production plant is certified and approved by Research Institutes - ROSNITI and VNIINP.

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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

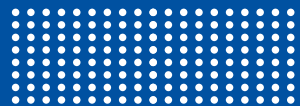
Drum 180 kg, bucket 18 kg

LUBRICANTS FOR CONSTANT VELOCITY JOINTS

Product name	NOVA ULTRA 150...220 EP	SHRUS-4 (CVJ-4)
Thickener	Lithium soap	Lithium-calcium soap
NLGI	1; 2; 3	1; 2; 3
Welding load, N	2800	1950
Base oil viscosity at 40 °C, mm²/s	150-220	110
Operating temperature range, °C	-30...+120	-40...+120
Main properties	Lubricating grease, based on mixture of high quality mineral oils, thickened with special lithium soap. The grease is enhanced with high performance additive package, contains solid lubricants for border friction conditions.	Antifricition special automotive grease with multifunctional additive package and molybdenum disulfide. Recommended for lubricating constant velocity joints.
Meets the requirements	DIN 51502 KPF(NLGI)K-30 ISO 6743 ISO-L-XCCEA2 (NLGI)	DIN 51502 KPF2K-40

Package

Drum 180 kg, bucket 18 kg



SPECIAL GREASE FOR HEAVILY LOADED UNITS

Product name	NOVA SUPER 220 EP	NOVA SUPER 3M	TITAN CSC 220...460
Thickener	Lithium complex soap	Lithium complex soap	Calcium sulfonate complex soap
NLGI	1; 2; 3	1; 2; 3	1; 2; 3
Welding load, N	2900	3150	4900
Base oil viscosity at 40 °C, mm²/s	220	220	220...460
Operating temperature range, °C	-30...+160	-30...+160	-20...+180
Main properties	Special grease for rolling and plain bearings of vehicles and industrial equipment, can operate under high mechanical loads and high temperature. Features long operation time compared to simple lithium grease.	Special grease for rolling and plain bearings of vehicles and industrial equipment, contains solid lubricants. Can operate under extremely high mechanical loads and high temperature.	Special water resistant and heat resistant, thickened with calcium sulfonate complex grease and mixture of mineral oils. Can operate under high mechanical loads and contact with water, seawater.
Meets the requirements	DIN 51502 K(NLGI)P-30 ISO 6743 L-XCEHB (NLGI)	DIN 51502 KPF(NLGI)P-30 ISO 6743 L-XCEFB (NLGI)	DIN 51502 KP(NLGI)R-20 ISO 6743 L-XBEIB (NLGI)

Package

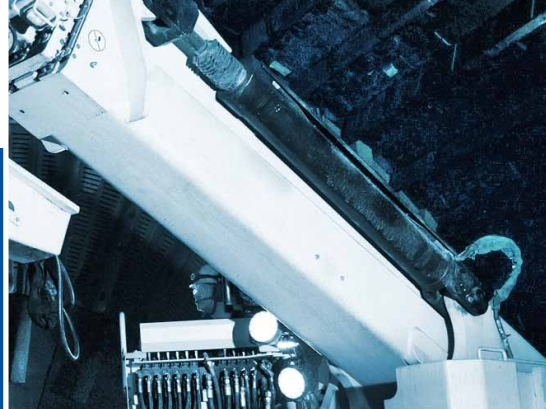
Drum 180 kg, bucket 18 kg

SPECIAL GREASES 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-XEBEA (NLGI)	DIN 51502 KPFHC(NLGI)K-50

Package

Drum 180 kg, bucket 18 kg



SPECIALTY GREASES FOR HIGH SPEED BEARINGS

Product name	NOVA SUPER SHC 100	CIATIM-201	CIATIM-221
Thickener	Lithium complex soap	Lithium soap	Calcium complex soap
NLGI	2	3	2
Welding load, N	3000	2000	2000
Base oil viscosity at 40 °C, mm²/s	100	32	32
Operating temperature range, °C	-50...+180	-60...+100	-60...+150
Main properties	Lithium complex grease, used in high speed bearings, e.g. electric motor bearings, generator bearings, where low friction coefficient and long term operation is required. Based on synthetic oil, thickened with special lithium soap.	Low temperature, water resistant grease for lubrication of medium loaded rolling and plain bearings. Operating temperature range from -60 to +90 °C.	Low temperature range featuring low apparent viscosity max 800 Pa·s at -50 °C. For application in high speed bearings. Lack of chemical activity of grease towards hydrocarbon polymers and elastomers allows to apply the grease in metal-rubber, metal-plastic and plastic-plastic units.
Meets the requirements	DIN 51502 K2K-30 ISO 6743 ISO-L-XCCEA2	GOST 6267-74	GOST 9433-80

Package

Drum 180 kg, bucket 18 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 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

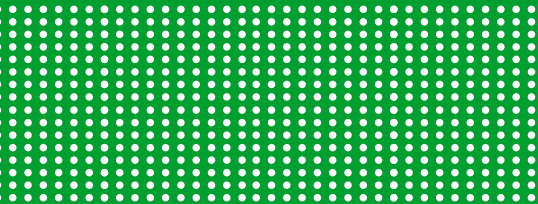
Product name	Standard	Density, g/ml	Viscosity, cSt at 40 °C	Flash point, °C	Pour point, °C
TRIBOSTAR TM-4	API GL-4 SAE 75W-80 75W-85 75W-90 80W	0.88	32-68	245	-30
TRIBOSTAR TM-5	API GL-5 SAE 75W-90 80W-90 80W-140 85W-140	0.88	32-68	245	-30

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



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**Novocherkassk lubricant production plant
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