

Titan-SM[®]



PRODUCT CATALOGUE

Lubricants for mining
industry

We create conditions for growth



Group of Companies Titan

It is the largest company in Siberia, one of the key investors of Omsk region. It was founded in 1989 by Mikhail Sutyaginsky.

It includes about 20 enterprises of the petrochemical and agro-industrial complex, as well as infrastructure enterprises.

The main production site of the company is located on the territory of Omsk region; subsidiaries and affiliates are represented in the regions of Russia (Moscow, St. Petersburg, Novocherkassk, Pskov, Ufa etc) and the CIS countries. The number of employees of the Group's enterprises is about 4500 people.

Titan-SM, Limited company

The **production facilities** of Titan-SM, Limited company are based on process units producing greases and lubricating-cooling fluids for different industries: oil and gas, mechanical engineering, metallurgy and metalworking, instrument making, automotive and railway transport industries, as well as for the defense complex. The enterprise facilities allow to produce more than 12 000 tons of products per year.

The plant operates using a **unique technology** based on dry boiling-off due to which energy costs are significantly reduced and end product quality is maintained. The production process is practically waste-free due to the closed processing cycle.

The **product quality** is a determinant factor of the activity of Titan-SM Limited company. The quality control of each production stage is conducted by the Quality Control Division of the production testing laboratory possessing all the necessary modern equipment.

The center of research works is represented by an **experimental industrial laboratory** which activity is aimed at creating new products and effective production technologies.

The **range of products** includes products based on petroleum and synthetic oils - engine, transmission, hydraulic oils; greases; lubricants; metalworking fluids; release fluids; friction modifiers and drilling fluid components. The products of Titan-SM, Limited company are certified and approved by ROSNITI (Russian Research Institute of Pipe Industry) and VNIINP JSC (All-Russian Research Institute of Oil Refining).

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UNIVERSAL 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
Basic characteristics	Universal grease for roller and slide bearings with EP additives, for construction and road construction machinery and industrial equipment. Reduces friction and wear especially in friction couples subject to medium and high loads.	Universal grease for roller and slide bearings of vehicles and industrial equipment. Due to the lithium- calcium thickener the grease possesses good pumpability, high adhesion and water resistance.	Anti-friction multipurpose water resistant grease. Possesses many advantages of lithium greases, demonstrates exceptional shear stability, excellent sealing properties, resistant to moisture.
Conformity to the performance property category	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 JOINTS

Product name	NOVA ULTRA 150...220 EP	ShRUS-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, mm ² /s	150-220	110
Operating temperature range, °C	-30...+120	-40...+120
Basic characteristics	Anti-friction grease, based on the mixture of high quality mineral oils, thickened with special lithium soap. The grease is enhanced with high - efficiency additive package, improving performance properties, it also contains solid lubricants for operation in boundary friction conditions	Anti-friction multipurpose automotive grease with multifunctional additive package and molybdenum disulfide. Recommended for lubricating constant velocity joints.
Conformity to the performance property category	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
Basic characteristics	Special grease for roller and slide bearings of vehicles and industrial equipment, capable to operate under high mechanical loads and high temperature. Possesses long service life compared to simple lithium greases.	Special grease for roller and slide bearings of vehicles and industrial units, contains solid lubricants. Capable to operate under extremely high mechanical loads and high temperature.	Special water resistant and heat resistant grease, thickened with calcium sulfonate complex grease and mixture of mineral oils. Capable to operate under high mechanical loads and contact with water, including seawater.
Conformity to the performance property category	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 DELIVERY THROUGH CENTRALIZED 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
Basic characteristics	Series of specially designed greases for operation in centralized systems at extremely low temperatures. It is produced based on the mixture of high-quality low-viscosity oils, thickened with lithium soap, contains high-performance additives and solid lubricants.	Specially designed grease for the operation in centralized systems as an all-season grease. It is produced based on synthetic oils, thickened with lithium soap, contains additives and solid lubricants
Conformity to the performance property category	DIN 51502 KPF(NLGI)E-50 ISO 6743 L-XEBEA (NLGI)	DIN 51502 KPFHC(NLGI)K-50

Фасовка

Drum 180 kg, bucket 18 kg



SPECIAL 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
Basic characteristics	Plastic grease, used in high-speed friction units, e.g. in bearings of electric motors, generators, where low friction coefficient and long-term operation are required. Based on synthetic oils, thickened with special lithium soap.	Cold-resistant, water-resistant instrument grease for the lubrication of low-loaded rolling and sliding friction units. Operating temperature range is from -60 to +90 °C.	Grease with a low apparent viscosity at the level of 800 Pa·s max at -50 °C for application in high-speed units. Lack of chemical activity of the grease towards hydrocarbon polymers and elastomers allows to apply the grease in metal-rubber, metal-plastic and plastic-plastic friction couples.
Conformity to the performance property category	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
Basic characteristics	Special liquid lubricant for swing bearings of excavators 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 lubricant for open gears. Capable for pumping via centralized lubrication systems and for operation within a wide temperature range from -35 °C to +140 °C.	Special lubricant for dragline excavators and shovels, based on a special high-viscosity mineral oil and aluminum complex soap with solid lubricant content	Special grease based on calcium sulfonate complex soap and naphthenic oils for roller and slide bearings of vehicles and industrial units. Recommended for the lubrication of units, working under high loads and relative speeds.		
Conformity to the performance property category	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	Conformity to standards	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	Conformity to standards	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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