

Titan – SM 



PRODUCT CATALOGUE

Lubricants for metallurgy

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).

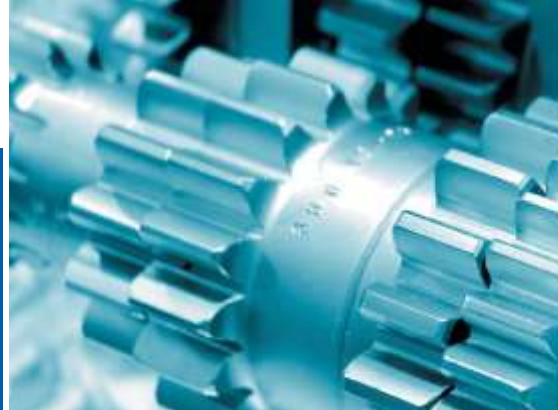
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LUBRICANTS FOR SINTERING PLANTS

Application

They are designed for the friction couple protection from abrasive dust penetration, as well as for ensuring operation stability under high temperature loads.

Application area	Unit to be lubricated	Operating temperature, °C	Product name	DIN 51 502	Basic characteristics
Sintering trolley	Trolley bearings	-20...+180	Titan CSC 460	K1R-20 K2R-20	High-temperature water resistant calcium sulfonate complex grease with high load carrying capacity
	Sealing bar	-20...+160	Titan STL 220	K1P-20 K2P-20	High-temperature calcium complex grease, specially developed for centralized lubrication systems of metal casting and metal rolling machines
	Coupling	-20...+180	Titan CSC 460	KP1R-20 KP2R-20	High-temperature grease for centralized lubrication systems with ultra-high bearing protection under boundary friction conditions
Cooler chain elements	Roller bearings	-20...+180	Titan CSC 220	K1R-20 K2R-20	High-temperature water resistant, calcium sulfonate complex grease with high load carrying capacity
	Slide bearings	-30...+160	Nova Super 220 EP	KP2P-30 —	Lithium complex high temperature grease, resistant to water, with a high degree of adhesion
	Slide bearings	-20...+180	Titan PU 460	KP1R-20 KP2R-20	High-temperature grease for centralized lubrication systems with ultra-high bearing protection under boundary friction conditions
Sieves	Rolling bearing	-30...+130	Nova Ultra 150 EP	KPF1P-30 KPF2P-30	Universal reduction gear lubricant with shock load protection
	Rolling bearing	-30...+160	Nova Super 220 EP	KP2R-30 —	Lithium complex high temperature grease, resistant to water, with a high degree of adhesion

Package

Drum 180 kg, bucket 18 kg

LUBRICANTS FOR BILLET CONTINUOUS CASTING MACHINES

Application

They are designed for the roller bearing protection from water penetration, protection in boundary friction and shock load conditions. This group of greases is designed for the operation in centralized lubrication systems.

Application area	Unit to be lubricated	Operating temperature, °C	Product name	DIN 51 502	Basic characteristics
Billet continuous casting machine	Centralized lubrication system	-20...+200	Titan PU 460	KP1R-20 KP2R-20	High-temperature polyuria grease for centralized lubrication systems with ultra-high bearing protection under boundary friction conditions
		-20...+180	Titan KSK 460	K1R-20 K2R-20	Water resistant high-temperature grease with high load carrying capacity
		-30...+160	Nova Super 220 EP	KP2P-30 —	High-temperature lithium complex grease for centralized lubrication system, with high load carrying capacity
		-20...+160	Titan STL 220	K1P-20 K2P-20	High-temperature calcium complex grease, specially designed for centralized lubrication systems of steel casting and steel rolling machines
	Bearings of the secondary cooling area	-20...+160	Titan STL 220	K1P-20 K2P-20	High-temperature calcium complex grease, specially designed for centralized lubrication systems of steel casting and steel rolling machines
	Withdrawal and straightening units	-30...+160	Nova Super 220 EP	KP2P-30	High-temperature lithium grease for centralized lubrication systems with high load carrying capacity

Package

Drum 180 kg, bucket 18 kg



LUBRICANTS FOR ROLLING MILLS

Application

The grease is used for the friction couple protection from water and steam penetration, prevention of damages caused by shock loads, as well as ensuring stable operation under high temperature conditions.

Application area	Unit to be lubricated	Operating temperature, °C	Product name	DIN 51 502	Basic characteristics
Hot rolling mill	Cardan	-30...+160	Nova Ultra 220 EP	KPF1P-30 KPF2P-30	Special grease for slow moving bearings subject to shock loads
	Drives	-30...+180	Nova 150 EP	KP0K-30	Universal reduction gear lubricant with the shock load protection
	Roller conveyor bearings	-20...+180	Titan STL 220	KP1R-20	High-temperature calcium complex grease, specially developed for centralized lubrication systems of metal casting and metal rolling machines
Cold rolling mill	Cardan	-30...+160	Nova Super 3M	KP1R-30 KP2R-30	Special lithium complex grease for slow moving bearings subject to shock loads
	Gears	-30...+180	Nova 150 EP	KP0K-30	Semi-liquid reduction gear grease based on lithium soap with EP additives
	Mill rollers	-30...+160	Titan CSC 220	K1P-30 KP2P-30	Water resistant grease
Galvanizing	Hot-run area roll bearings	-20...+180	Titan CSC 460	K1R-20 K2R-20	Water resistant, high-temperature grease with a high load carrying capacity

Package

Drum 180 kg, bucket 18 kg



OILS AND PROCESS FLUIDS FOR METALLURGY

Product name	Type	Density, g/ml	Viscosity, cSt at 40 °C	Flash point, °C	Pour point, °C
Titan HCA-M	Mineral release oil	0.88	30-58	270>	-9
Titan HCA-S	Synthetic release oil	0.92	34	330>	-24
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	Hydraulic oil	0.88	32-68	245	-30
Titan HLP	Hydraulic oil	0.88	32-68	245	-30
Titan HZF	Hydraulic oil	0.88	32-68	245	-30
Titan HLPD	Hydraulic oil	0.88	32-68	245	-30
Titan 101	Hydraulic oil	0.95	190	210	-20

Package

Bucket 18 kg



Titan-SM[®]



Titan-SM, Limited company

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