



H3CM



Group
of Companies
"Titan"

PRODUCT CATALOG

Lubricants
for metallurgy

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.

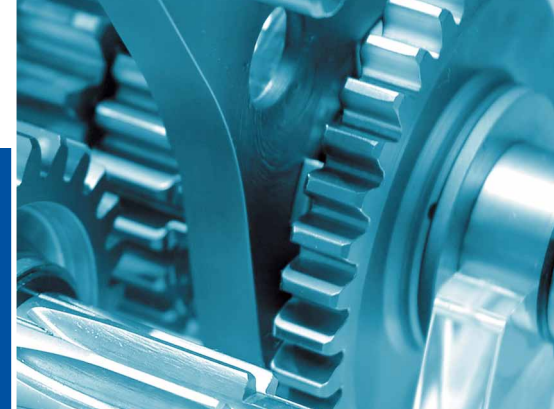
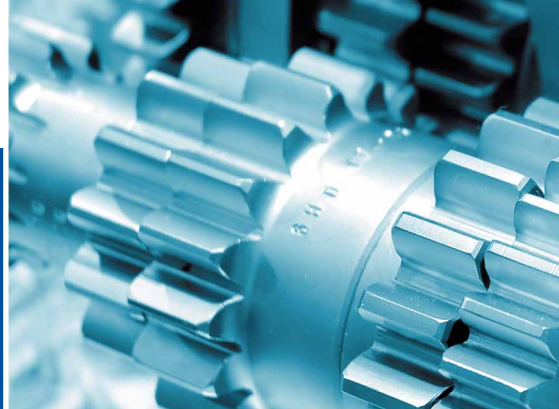
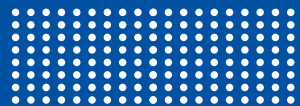
Address: 346413, 1V, Kharkovskoye shosse, Novocherkassk, Rostov Region, Russia

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

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

E-mail: info@titan-lub.ru

www.titan-lub.ru



LUBRICANTS FOR SINTERING PLANT

Application

Used for protection of friction units from abrasive dust, prevents damages caused by shock loads, provides long term operation under high temperature conditions.

Machine	Unit	Operating temperature, °C	Product name	DIN 51 502	Main properties
Trolley of sinter belt	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 designed for centralized lubrication system of metal casting and metal rolling machines
	Coupling	-20...+180	Titan CSC 460	KP1R-20 KP2R-20	High temperature grease for centralized lubrication system with ultimate bearing protection under border friction conditions
Cooler chain	Rolling bearing	-20...+180	Titan CSC 220	K1R-20 K2R-20	High temperature water resistant, calcium sulfonate complex grease with high load carrying capacity
	Sliding bearings	-30...+160	Nova Super 220 EP	KP2P-30 —	Lithium complex high temperature grease, resistant to water, shoes high adhesion
	Sliding bearings	-20...+180	Titan PU 460	KP1R-20 KP2R-20	High temperature grease for centralized lubrication system with ultimate bearing protection under border friction conditions
Sieves	Rolling bearing	-30...+130	Nova Ultra 150 EP	KPF1P-30 KPF2P-30	Universal gear lubricant with protection from shock load
	Rolling bearing	-30...+160	Nova Super 220 EP	KP2R-30 —	Lithium complex high temperature grease, resistant to water, shoes high adhesion

Package

Drum 180 kg, bucket 18 kg

LUBRICANTS FOR CONTINUOUS CASTING MACHINES

Application

Designed for protection of rolling bearings from water and heat, protection under border friction conditions and shock loads. This group of greases is specially designed for operation in centralized lubrication system.

Machine	Unit	Operating temperature, °C	Product name	DIN 51 502	Main properties
Continuous casting machine	Centralized lubrication system	-20...+200	Titan PU 460	KP1R-20 KP2R-20	High temperature polyuria grease for centralized lubrication system with ultimate bearing protection under border friction conditions
		-20...+180	Titan CSC 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
	Bearings in secondary bearing zone	-20...+160	Titan STL 220	K1P-20 K2P-20	High temperature calcium complex grease, specially designed for centralized lubrication system in steel casting and steel rolling machines
		-20...+180	Titan CSC 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 grease for centralized lubrication system with high load carrying capacity

Package

Drum 180 kg, bucket 18 kg

LUBRICANTS FOR ROLLING MILLS

Application

The grease is used for protection of friction units from water and steam, prevents damages caused by shock loads, provides long term running under high temperature conditions.

Machine	Unit	Operating temperature, °C	Product name	DIN 51 502	Main properties
Hot rolling mill	Cardan	-30...+160	Nova Ultra 220 EP	KPF1P-30 KPF2P-30	Special grease for slow moving bearings subject to high loads
	Bearings of driving rolls	-30...+180	Nova 150 EP	KP0K-30	Universal gear lubricant with protection from shock load
	Hot-run table bearings	-20...+180	Titan STL 220	KP1R-20	High temperature calcium complex grease, specially designed for centralized lubrication system 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 high loads
	Gears	-30...+180	Nova 150 EP	KP0K-30	Semi-liquid grease based on lithium soap and EP additives
	Rolling mills	-30...+160	Titan CSC 220	K1P-30 KP2P-30	Water resistant grease
Galvanizing	Hot-run table bearings	-20...+180	Titan CSC 460	K1R-20 K2R-20	Water resistant, high temperature grease with high load carrying capacity

Package

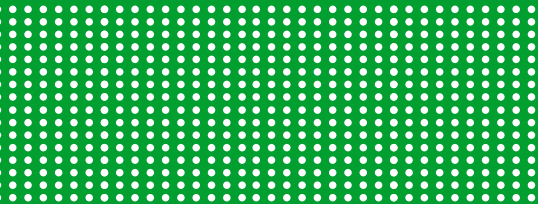
Drum 180 kg, bucket 18 kg

OILS AND PROCESSING FLUIDS FOR THE 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
Pulsar 101	Stamping oil	0.95	190	210	-20

Package

Bucket 18 kg



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**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