

**NZSM** 

  
Group  
of Companies  
"Titan"

# 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 4000 people.

## Novocherkassk Lubricant Production Plant

**The production facilities** of Novocherkassk Lubricant Production Plant (NZSM LLC) are based on process units producing lubricants, oils and process 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 lubricants and over 23 000 tons of process fluids 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 NZSM LLC. 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 NZSM LLC are certified and approved by VNIIZhT JSC (All-Russian Railway Research Institute), VNIINP JSC (All-Russian Research Institute of Oil Refining), RosNITI (Russian Research Institute of Pipe Industry) and Gazprom VNIIGAZ LLC (All-Russian Scientific Research Institute of Natural Gases and Gas Technologies).

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### UNIVERSAL GREASES

| Product name   | NOVA 150...220 EP   | NOVA 100 Li-Ca  | LITHOL-24   |
|--|---|---|---|
| <b>Thickener</b>                                       | Lithium soap  | Lithium-calcium soap  | Lithium soap  |
| <b>NLGI</b>  | 1; 2; 3   | 1; 2; 3   | 3   |
| <b>Welding load, N</b>                                 | 2800  | 1950  | 1410  |
| <b>Base oil viscosity at 40 °C, mm<sup>2</sup>/s</b>   | 150–220   | 110   | 110   |
| <b>Operating temperature range, °C</b>                 | -30...+120  | -40...+120  | -30...+120  |
| <b>Basic characteristics</b>                           | 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. |
| <b>Conformity to the performance property category</b> | DIN 51502<br>KP(NLGI)K-30<br>ISO 6743<br>L-XCCEB (NLGI)   | DIN 51502<br>K(NLGI)K-40<br>ISO 6743<br>L-XDCEA(NLGI)   | DIN 51502<br>K(NLGI)K-30<br>ISO 6743<br>ISO-L-XCCEA (NLGI)  |

**Package**

Drum 180 kg, bucket 18 kg



### LUBRICANTS FOR JOINTS

| Product name   | NOVA ULTRA 150...220 EP   | ShRUS-4  |
|--|---|--|
| <b>Thickener</b>                                       | Lithium soap  | Lithium-calcium soap   |
| <b>NLGI</b>  | 1; 2; 3   | 1; 2; 3  |
| <b>Welding load, N</b>                                 | 2800  | 1950   |
| <b>Base oil viscosity at 40 °C, mm<sup>2</sup>/s</b>   | 150–220   | 110  |
| <b>Operating temperature range, °C</b>                 | -30...+120  | -40...+120   |
| <b>Basic characteristics</b>                           | 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. |
| <b>Conformity to the performance property category</b> | DIN 51502<br>KPF(NLGI)K-30<br>ISO 6743<br>ISO-L-XCCEA2 (NLGI)   | DIN 51502<br>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  |
|--|---|--|--|
| <b>Thickener</b>                                       | Lithium complex soap  | Lithium complex soap   | Calcium sulfonate complex soap   |
| <b>NLGI</b>  | 1; 2; 3   | 1; 2; 3  | 1; 2; 3  |
| <b>Welding load, N</b>                                 | 2900  | 3150   | 4900   |
| <b>Base oil viscosity at 40 °C, mm<sup>2</sup>/s</b>   | 220   | 220  | 220...460  |
| <b>Operating temperature range, °C</b>                 | -30...+160  | -30...+160   | -20...+180   |
| <b>Basic characteristics</b>                           | 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. |
| <b>Conformity to the performance property category</b> | DIN 51502<br>K(NLGI)P-30<br>ISO 6743<br>L-XCEHB (NLGI)  | DIN 51502<br>KPF(NLGI)P-30<br>ISO 6743<br>L-XCEFB (NLGI)   | DIN 51502<br>KP(NLGI)R-20<br>ISO 6743<br>L-XBEIB (NLGI)  |

**Package**

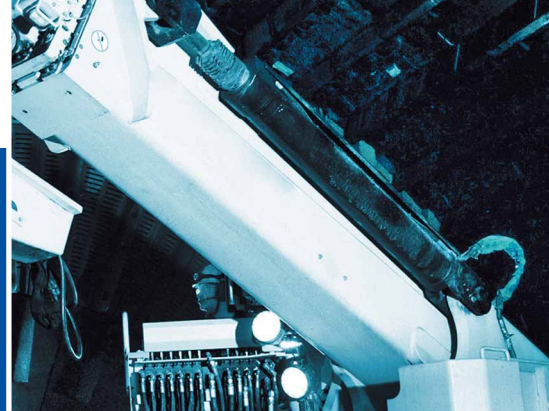
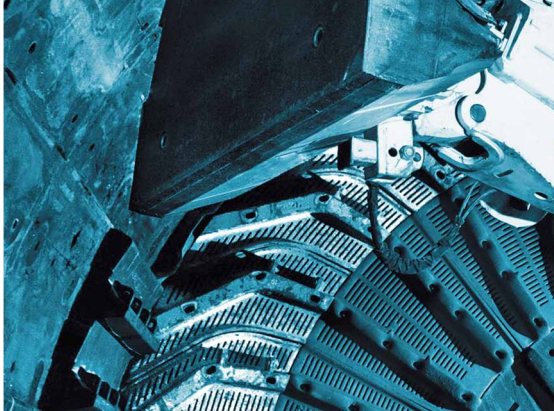
Drum 180 kg, bucket 18 kg

**SPECIAL GREASES FOR DELIVERY THROUGH CENTRALIZED SYSTEMS**

| Product name   | NOVA ARCTIC 35  | NOVA ARCTIC 100   |
|--|---|---|
| <b>Thickener</b>                                       | Lithium soap  | Lithium soap  |
| <b>NLGI</b>  | 0; 1; 2   | 1; 2  |
| <b>Welding load, N</b>                                 | 3150  | 3150  |
| <b>Base oil viscosity at 40 °C, mm<sup>2</sup>/s</b>   | 35...40   | 110   |
| <b>Operating temperature range, °C</b>                 | -50...+100  | -50...+120  |
| <b>Basic characteristics</b>                           | 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. |
| <b>Conformity to the performance property category</b> | DIN 51502<br>KPF(NLGI)E-50<br>ISO 6743<br>L-XEBEA (NLGI)  | DIN 51502<br>KPFHC(NLGI)K-50  |

**Package**

Drum 180 kg, bucket 18 kg



**SPECIAL GREASES FOR HIGH-SPEED BEARINGS**

| Product name   | NOVA SUPER SHC 100   | CIATIM-201   | CIATIM-221   |
|--|--|--|--|
| <b>Thickener</b>                                       | Lithium complex soap   | Lithium soap   | Calcium complex soap   |
| <b>NLGI</b>  | 2  | 3  | 2  |
| <b>Welding load, N</b>                                 | 3000   | 2000   | 2000   |
| <b>Base oil viscosity at 40 °C, mm<sup>2</sup>/s</b>   | 100  | 32   | 32   |
| <b>Operating temperature range, °C</b>                 | -50...+180   | -60...+100   | -60...+150   |
| <b>Basic characteristics</b>                           | 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. |
| <b>Conformity to the performance property category</b> | DIN 51502<br>K2K-30<br>ISO 6743<br>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   |            |            |
|--|---|---|--|--|------------|------------|
| <b>Thickener</b>                                       | Special lithium soap  | Special lithium soap  | Aluminium complex soap   | Calcium sulfonate complex soap   |            |            |
| <b>NLGI</b>  | 1   | 1   | 0  | 0  | 1          | 2          |
| <b>Welding load, N</b>                                 | 6800  | 6800  | 6800   | 6200   | 6200       | 6200       |
| <b>Base oil viscosity at 40 °C, mm<sup>2</sup>/s</b>   | 700   | 1500  | 3500   | 150  | 150        | 150        |
| <b>Operating temperature range, °C</b>                 | -50...+120  | -30...+140  | -30...+120   | -45...+140   | -35...+140 | -30...+140 |
| <b>Basic characteristics</b>                           | 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. |            |            |
| <b>Conformity to the performance property category</b> | DIN 51502<br>OGX1K-50   | DIN 51502<br>OGF1K-35   | DIN 51502<br>OGF0N-10  | DIN 51502<br>KPF(NLGI)P-45<br>ISO 6743<br>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 |
|------------------------------|---|---------------|-------------------------|-----------------|----------------|
| <b>NORDSTAR ARCTIC 0W-40</b> | Cat ECF-3<br>API CJ-4/CI-4<br>PLUS/CI-4/CH-4/SM | 0.85          | 89                      | 260             | -40            |
| <b>NORDSTAR DEO 10W-30</b>   | Cat ECF-2<br>API CI-4/CH-4/SL                   | 0.87          | 76                      | 222             | -36            |
| <b>NORDSTAR DEO 15W-40</b>   | Cat ECF-2<br>API CI-4/CH-4/SL<br>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 |
|-----------------------|--|---------------|-------------------------|-----------------|----------------|
| <b>TRIBOSTAR TM-4</b> | API GL-4<br>SAE 75W-80<br>75W-85<br>75W-90<br>80W      | 0.88          | 32-68                   | 245             | -30            |
| <b>TRIBOSTAR TM-5</b> | API GL-5<br>SAE 75W-90<br>80W-90<br>80W-140<br>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 |
|--|--------------------------------|---------------|-------------------------|-----------------|----------------|
| <b>TITAN HFDU</b>  | Fire resistant hydraulic fluid | 0.92          | 32-68                   | 310             | -30            |
| <b>TITAN HFC</b>   | Fire resistant hydraulic fluid | 1.072         | 32-68                   | —               | -50            |
| <b>TITAN HM</b><br><b>TITAN HLP</b><br><b>TITAN HZF</b><br><b>TITAN HLPD</b> | Hydraulic oil                  | 0.88          | 32-68                   | 245             | -30            |

### Package

Drum 180 kg, bucket 18 kg



**NZSM** 



**Novocherkassk Lubricant  
Production Plant**

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