



High Performance Greases “AGRINOL”



FROM 2000

One of the first independent manufacturers of lubricating materials in Ukraine.

FROM 2006

The control system of quality of the enterprise (manufacture of products of oil refining and special greasing materials) is certificated under the international standard

DSTU ISO 9001-2009(ISO 9001: 2008)

FROM 2009

A member of European Lubricating Grease Institute



ACTIVITIES:

➤ GREASES MANUFACTURING:

By application:

- general-purpose greases
- multipurpose greases
- car greases
- industrial greases
- railway greases
- rope and conservation greases
- heat-resistant greases
- low-temperature greases
- special greases

By thickener type:

- Lithium simple
- Lithium complex
- Sodium simple
- Calcium simple (hydrated)
- Calcium complex
- Calcium Sulphonate
- Mixed (Na-Ca; Li-Zn)
- Barium complex
- Silica gel & Aerosil
- Organic & Non organic
- Solid hydrocarbons

and etc.

REACH active



➤ OILS MANUFACTURING

➤ MANUFACTURING of METAL STEEL PACKAGE

➤ MANUFACTURING of LCPT (Lubricating and Cooling Technological Liquids)

GREASES “SKS 300 m”



EXTREME-PRESSURE, WATER RESISTANT, HIGH-TEMPERATURE CALCIUM SULPHONATE COMPLEX GREASES

	SKS 300 m-1, m-1*	SKS 300 m-2, m-2*
Conformity to the classifications: NLGI DIN 51502	1 KP1/2R-25	2 KP2R-20
Operating temperature, min... max, °C	-25 ... +180	-20 ... +190
Soap/thickener Color Appearance	Calcium Sulphonate Brown / * Red Homogenous / Smooth / Buttery	
Penetration at 25 C, mm·10 ⁻¹	280-320	250-280
Dropping point, C, not lower than	300	
Tribological characteristics on Four-ball machine at (20 5) C, ✓welding loading, N, not less than ✓critical loading, not less than	4136 1230	

APPLICATIONS

Multi-purpose, heat-resistant, waterproof sulfonate-calcium lubricants are recommended for greasing bearings of industrial equipment, metallurgical enterprises, working in conditions of high loads, high temperatures and water contact.

Lubricants **SCS 300 m- 1** and **SCS 300 m-1*** - used in centralized greasing systems and devices with forced delivery of lubricants in friction units.

Lubricants **SCS 300 m-2** and **SCS 300 m-2*** are recommended for lubrication of embedded bearings.

ADVANTAGES

Multi-purpose
Water resistant

High loads
High temperatures

Anti corrosion
Excellent wear protection



GREASE “SLIDING GR”



MULTI-PURPOSE, EXTREME PRESSURE, HIGH-TEMPERATURE LITHIUM COMPLEX GREASES “SLIDING”

	GR 00	GR 0	GR 1	GR 2
Conformity to the classifications: NLGI DIN 51502	00 GP00P-20	0 KP0P-20	1 KP1R-20	2 KP2R-20
Operating temperature, min... max, °C	-20 ... +150		- 20 ... +160	-30 ... +180
Soap/thickener Color Appearance	Lithium complex + EP Brown Homogenous /Smooth / Buttery			
Penetration at 25 C, mm·10-1	370–430	330–380	290–340	260–290
Dropping point, C, not lower than	230	250	250	260
Tribological characteristics on Four-ball machine at (20 5) C, ✓welding loading, N, not less than ✓critical loading, not less than	3283 980		3283 980	

APPLICATIONS

Lubricants for greasing rolling work bearings of rolling mills, heavy duty roller and ball bearings units of industrial equipment.
Sliding GR 00 (NLGI 00) Sliding GR 0 (NLGI 0) - liquid lubricants for gear and screw transmissions of all kinds, and also for centralized greasing systems.

Sliding GR 1 (NLGI 1) – winter lubricant, used in centralized systems of continuous greasing.

Sliding GR 2 (NLGI 2) – summer lubricant, used as a mortgage one.

ADVANTAGES

Multi-purpose
Waterproof

High loads
High temperatures

Protection in case of vibration
Mechanical & Thermal stability



GREASES “AGRINOL UNIOL -2M”



ANTI-WEAR, WATERPROOF, HIGH-TEMPERATURE CALCIUM COMPLEX GREASES “AGRINOL UNIOL-2M”

	AGRINOL UNIOL -2M-1	AGRINOL UNIOL -2M-2
Conformity to the classifications: NLGI DIN 51502	2 KP2P-20	1 KP1R-30
Operating temperature, min... max, °C	-10 ... +150 (+170)	-20 ... +150 (+170)
Soap/thickener Color Appearance	Calcium complex Brown Homogenous / Smooth / Buttery	
Penetration at 25 C, mm-10-1	265-320	320-380
Dropping point, C, not lower than	230	
Tribological characteristics on Four-ball machine at (20 5) C, ✓welding loading, N, not less than ✓critical loading, not less than	2323 980	

APPLICATIONS

High performance calcium complex lubricating greases **Agrinol Uniol-2M** are used for greasing rolling mills in the steel industry, blast furnaces and other large equipment of metallurgical enterprises. It is suitable for the lubrication of bearings exposed to heavy load in a wide temperature range.

Lubricant **Agrinol Uniol-2M -1** - is used for embedded parts greasing.

Lubricant **Agrinol Uniol-2M -2** - is used for greasing with the help of centralized lubricants methods.

ADVANTAGES

Very good pumpability
Good Mechanical & Thermal stability

High loads
High temperatures

Anti corrosion
Wear protection



GREASE “LIGREASE EP”



MULTI-PURPOSE, ANTI-FRICTION, ANTI-WEAR, WATERPROOF LITHIUM-BASE GREASES “LIGREASE EP”

	EP 00	EP 0	EP 1	EP 2	EP 3
Conformity to the classifications: NLGI DIN 51502	00 KP00K-30	0 KP0K-30	1 KP1K-40	2 KP2K-30	3 KP3K-30
Operating temperature, min... max, °C	-30...+120	-30...+120	- 40...+120	- 30...+130	-30...+130
Soap/thickener Color Appearance	Lithium + EP Brown Homogenous /Smooth / Buttery				
Penetration at 25 C, mm·10-1	380-430	340-380	310-340	265-295	220-250
Dropping point, C, not lower than	150	165	185	190	190
Tribological characteristics on Four-ball machine at (20 5) C, ✓welding loading, N, not less than	2607	2607	2607	2764	2764

APPLICATIONS

Anti-friction lubricants **Ligrease EP** are used for greasing of all types of frictionless and slide bearings, joints, toothed and other gears of industrial and electric machines, conveyors and various mechanisms of industrial, agricultural and constructing equipment. **Ligrease EP 00 (NLGI 00)**, **Ligrease EP 0 (NLGI 0)** - for the lubrication of rolling and sliding bearings, gears, clutches and other transmission machinery, and also for centralized greasing systems.

Ligrease EP 1 (NLGI 1) – winter lubricant, used in centralized systems of continuous greasing.

Ligrease EP 2 (NLGI 2), **Ligrease EP 3 (NLGI 3)** – summer lubricants, used as a mortgage one, and also for lubricating wheel bearings working at high speed and dynamic load.

Owing to its good wear protection and EP properties they are suitable for the lubrication of equipment exposed to heavy load.

ADVANTAGES

True multi-purpose
Water resistant

High loads
Wear protection

Protection in case of vibration
Good Mechanical & Thermal stability



MULTI-PURPOSE, ANTI-FRICTION, WATERPROOF LITHIUM-BASE GREASES “LIGREASE ”

	00	0	1	2	3
Conformity to the classifications: NLGI DIN 51502	00 K00G-30	0 K0G-30	1 K1K-40	2 K2K-30	3 K3K-30
Operating temperature, min... max, °C	-30...+100	-30...+110	- 40...+120	- 30...+130	-30...+130
Soap/thickener Color Appearance	Lithium Brown Homogenous /Smooth / Buttery				
Penetration at 25 C, mm·10-1	380-430	340-380	310-340	265-295	220-250
Dropping point, C, not lower than	150	165	185	190	190
Proof strength 50 C, Pa, in limits	-	100 (20 C)	150	200	300

APPLICATIONS

Anti-friction lubricants **Ligrease** are used for greasing of all types of frictionless and slide bearings, joints, toothed and other gears of industrial and electric machines, agricultural and constructing equipment working within normal temperature range, which don't run at high speed and pressure.

Ligrease 00 (NLGI 00), **Ligrease 0 (NLGI 0)** - for the lubrication of rolling and sliding bearings, gears, clutches and other transmission machinery, and also for centralized greasing systems.

Ligrease 1 (NLGI 1) – winter lubricant, used in centralized systems of continuous greasing.

Ligrease 2 (NLGI 2), **Ligrease 3 (NLGI 3)** – summer lubricants, used as a mortgage one.

ADVANTAGES

True multi-purpose
Water resistant

Good oxidation stability
Anti corrosion

Very good pumpability (NLGI 00,0,1)
Excellent tackiness (NLGI 2,3)

MULTI-PURPOSE, EXTREME PRESSURE, WATERPROOF, LITHIUM-CALCIUM GREASES “LubriLiCa”

	WR 1	WR 2	WR 3	EP 1	EP 2	EP 3
Conformity to the classifications: NLGI DIN 51502	1 K1K-30	2 K2K-30	3 K3K-30	1 KP1K-40	2 KP2K-30	3 KP3K-30
Operating temperature, min... max, °C	-30...+110	-30...+110	-30...+110	-30...+110	-30...+110	-30...+110
Soap/thickener Color Appearance	Lithium-Calcium complex Brown Homogenous /Smooth / Buttery					
Penetration at 25 °C, mm-10-1	305-345	260-300	215-255	305-345	260-300	215-255
Dropping point, °C, not lower than	160	170	175	160	170	175
Tribological characteristics on Four-ball machine at (20 ± 5) °C, ✓welding loading, N, not less than	-	-	-	2607	2607	2607

APPLICATIONS

Multi-purpose lubricants **LubriLiCa** are used for greasing of loaded slide-, ball-, and roller-bearings, wheel bearings, universal joints, chassis, and various shock loaded or vibrating applications and various mechanisms of industrial, transport, agricultural and constructing equipment, off road vehicles which are working within normal temperature range.

LubriLiCa WR (NLGI 1, 2, 3) – these brands of greases have the excellent water resistant qualities.

LubriLiCa EP (NLGI 1, 2, 3) – these brands of greases contain special extreme-pressure additives (EP) which enable them to withstand heavy and shock loads without failure of the lubricant film.

ADVANTAGES

Multi-purpose
Water resistant

Good mechanical stability
Wear protection

Heavy load & Shock load
Protection in case of vibration

PACKING MANUFACTURE



Sub Division of LLC RU SIE “AGRINOL” - manufacturer of metal drums and pails for transportation of oil products, chemicals, ferrous and non-ferrous products, paintwork products.

Assortment of steel drums qualify the requirements of chemical, petrochemical, pharmaceutical and food industry.

Drums are manufactured in accordance with the current requirements of UN on transportation and storage of dangerous cargo, at the same time with observance of national and juridical standards.



INDIVIDUAL ORDERING

For individual ordering SIE “Agrinol” offers:



- ✓ Manufacture of metal drums and pails with the logo of the customer.
- ✓ Painting metal drums into corporate colors.



PACKING MANUFACTURE

STEEL DRUM, tight-head 1A1



- ✓ **The first neck** – Filler-hole G2”, Rieke production, is made by curling.
- ✓ **The second neck** – Air-hole G3/4”, Rieke production, is made by curling.
- ✓ **Curling** – round seven-layer seam with sealing hermetic Darex 159 V.
- ✓ **Drum’s body** is made of sheet metal, thickness 0,9 – 1,0 mm.
- ✓ **Edges-ridge** – Two ridges that are made on the surface of the drum’s frame with radius R=9 mm.
- ✓ The dense, strong and tight **welding seam** is made by contact welding overlapped width of 4 mm.
- ✓ **Bottom and top** are made of sheet metal thickness of 1,0 mm.

STEEL DRUM, 1A2



- ✓ **Hoop coupling** – SIE “Agrinol” production, is made of galvanized steel.
- ✓ **The lock with lever**, Rieke production, is supplied with a device for sealing plastic cotter.
- ✓ **The removable** deep-drawing **top** 1,0 mm thick with relief.
- ✓ **Drum’s body** is made of sheet metal, thickness 0,9 – 1,0 mm.
- ✓ **Edges-ridge** – Two ridges that are made on the surface of the drum’s frame with radius R=9 mm.
- ✓ The dense, strong and tight **welding seam** is made by contact welding overlapped width of 4 mm.
- ✓ **The bottom** is made of sheet metal thickness of 1,0 mm with a rigid relief. It is connected to the seven-layer seam with sealing hermetic Darex 159 V.

For individual ordering SIE “Agrinol” offers manufacture of **metal pail with tightening gird I-1A2 20 dm³** with the logo of the customer and painting them into the corporate colors.

PACKING of PRODUCTS

METAL PACKAGE



Can 0,5 dm³



Can 1 dm³



Pail with tightening gird
20 dm³



Open Head steel drum
1A2 213 dm³



Tight Head steel drum
1A1 216,5 dm³

POLYMER PACKAGE



PLASTIC
PAIL 10L



PLASTIC
PAIL 5L



EURO-CARTRIDGE
0,45 dm³

Thank you for your attention!



Our research-and-production department, scientific and marketing researches focused on the maximum possible satisfaction of our customers' requirements on adaptation of products to the certain conditions of its application.

LLC RU SIE "Agrinol" is open to co-operate with all the companies and organizations interested in development, assimilation and application of new types of products.



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