

## MULTI-PURPOSE LUBRICANTS

### LubriLiCa EP -1, -2, -3

TS U 23.2-36451680-172:2011

NLGI 1; 2; 3

#### Compositions

Mixture of residual and distillate petroleum oils, thickened with lithium-calcium soaps of fatty acids with addition of functionally active additive, that improve protection, antioxidant additive properties. Contains anti-wear EP-additive.

#### Applications

Waterproof multi-purpose lubricants **LubriLiCa EP** is used for greasing of different friction units of industrial equipment (rolling and sliding bearings, toothed gears of industrial machinery and equipment, etc.), mechanisms of transport facility and agricultural machines, that work at high loads in conditions of enhanced humidity.

**LubriLiCa EP 1** is recommended for lubrication chassis and transmission of cars, trucks with small and average loading, for friction units of industrial equipment.

Marks **LubriLiCa EP 2** and **LubriLiCa EP 3** used as a mortgage.

Temperature range of application: **minus 30 to 120 °C.**

#### Main operation properties

- enhanced waterproof;
- good lubricating properties;
- good pumpability;
- excellent anticorrosive properties;
- reliable work at low temperatures; good adhesion to metal surfaces.

#### Indicators of physical and chemical properties

Index name	LubriLiCa EP			Test methods		
Meets classifications	NLGI DIN 51502	1 KP1K-30	2 KP2K-30	3 KP3K-30	Test methods	
Thickener	Li-Ca + EP			GOST	ASTM*	
Operating temperature, °C,		- 30.. 110	- 30.. 110	- 30.. 120		
1. Product appearance	Homogeneous smooth ointment from light- to dark brown colour			GSTU 38.001		
2. Kinematic viscosity of the base oil, mm <sup>2</sup> /sec, not less than:						
at (+40)°C	100-150	100-150	100-150	33	D445	
at (+100)°C	11,0-14,5	11,0-14,5	11,0-14,5			
3. Worked penetration (60 double strokes) at 25 °C, m×10 <sup>-4</sup> , in limits	305-345	260-300	215-255	5346	D217	
4. Dropping Point, °C, not less	160	170	175	6793	D566	
5. Colloid stability, % separated oil, not more than	18	15	10	7142	D1742	
6. Fraction of free alkali in the recalculation of NaOH, %, not more than	0,15			6707	D664	
. Fraction mass of mechanical impurities, %, not more than	0,025			6479	D1404	
7. Corrosive influence on metals	Withstands			9.080	D4048	
8. Fraction mass of water, %, not more than	Traces			2477	D95	
9. Tribological characteristics on Four-ball machine, not less : welding load□(Rs)□N(kGs)□	2607			9490	D2596/ D2266	

\*ASTM analogue is specified to identify the test method applicable to a client's certification system

**Guaranteed shelf life:** 3 years from the date of manufacture.