

#### **MULTI-PURPOSE GREASES**

### Litol-24

# GOST 21150 - 87

## NLGI 3

#### **Composition**

Petroleum oil thickened with by lithium-12hydroxy stearate soap; Contains antioxidation and viscosity additives.

### Application area

Multipurpose automotive grease.

Is applied at mechanisms of tractors, tracked vehicles, excavators, bulldozers, ship machinery, is used in electric machines, mining and road-building equipment.

For all kind of friction units: rolling and sliding bearings, bearings with sealing

washers as non-moved grease; joints, gears and other transmission.

Is used in closed units (hubs of automotive wheels, bearings of water pumps, etc.) instead of general-purpose greases and allows prolonging lubricants operation.

### Key performance properties

- high colloid, chemical and mechanical stability;
- •excellent anti-corrosion and conservation properties;
- reliable at low temperatures;
- good adhesion to the metal surfaces.

### Physical and chemical properties

Properties	Litol-24	
Compliance with classifications: NLGI // DIN 51502	3 // K3K-30	Test
Thickener	Li	methods
Operating temperature, °C	-40 120 (130)	
1. Appearance Homogeneous smooth ointment with color from light yellow to brown		GSTU 38.001
2. Worked penetration at 25°C (60 double strokes), m $\times$ 10 <sup>-4</sup> , within	220-250	GOST 5346
3. Dropping point, °C, not lower than	185	GOST 6793
4. Colloid stability, % of separated oil, not more than	12	GOST 7142
5. Shear strength: - at 20°C, Pa, within - at 80°C, Pa, not less than	500-1000 200	GOST 7143
6. Mass fraction of free alkali in NaOH equivalent, %, not more than	0,1	GOST 6707
7. Effective viscosity, Pa·s, not more than - at -20°C with average gradient of the strain rate 10 s-1, - at 0°C with average gradient of the strain rate 10 s-1, - at +50°C with average gradient of the strain rate 10 s-1.	650 280 8	GOST 7163
8. Corrosion test on copper plate acc. to GOST 859-78 (MO, MI mark)	Pass	GOST 9.080
<ul><li>9. Mass fraction:</li><li>- water, %, not more than</li><li>- mechanical impurities, %, not more than</li></ul>	None 0,05	GOST 2477 GOST 6479
<ul><li>10. Rubber swelling (26-44 mark), %,</li><li>- volume changes</li><li>- hardness changes</li></ul>	+ 8 + 8	GOST 9. 030 p. 3.6
11. Tribological properties on four-ball machine: - welding load, (Rs), N(kGs), n/m - critical load, (Rs), N(kGs), n/m - scuff index, (Si), not less than	1410 630 28	GOST 9490

**Shelf life:** 5 years from the manufacturing date.