

## INDUSTRIAL GREASES

### Sliding GR -1, -2

TS U 23.2-30802090-084:2008

NLGI 1; 2

#### **Composition**

Petroleum oil thickened with complex lithium soap of organic and inorganic acids with the addition of antiwear, EP and antioxidant additives.

#### **Sphere of application**

**Sliding GR** series is designed for roller bearings lubrication of rolling mills working rolls, heavy duty rollers and ball bearings, heavy duty gearboxes and other components of industrial equipment.

**Sliding GR 1 (NLGI 1)** - for centralized lubrication systems.

**Sliding GR 2 (NLGI 2)** - used as mortgage grease.

Operating temperature range: from **minus 20 (minus 30)** to **150 (180) °C**.

#### **Main performance characteristics**

- water-resistant;
- good pumpability;
- excellent anticorrosive properties;
- high thermal, mechanical and oxidation stability;
- high EP properties;
- good adhesion to metal surfaces.

#### **Physical and chemical properties**

Index name	Normative values		Test methods
	Sliding GR 1	Sliding GR 2	
<b>Classification match</b>	<b>NLGI 1</b> <b>KP1P-20</b>	<b>2</b> <b>KP2P-30</b>	
<b>Thickener</b>	<b>k-Li</b>		
<b>Operating temperature, °C</b>	<b>-20(-30) ... 150(180)</b>		
1. Appearance	Homogenous smooth brown ointment		DSTU 38.001
2. Penetration at 25°C with stirring (60 double cycles), $m \times 10^{-4}$ , within	290-340	260-290	GOST 5346 ASTM D 217
3. Dropping point, °C, no lower than	250	260	GOST 6793 ASTM D 2265
4. Colloid stability, % of selected oil, no more than	12	12	GOST 7142
5. Evaporation at 120°C within 1 hour, %, no more than	3	3	GOST 9566
6. Shear strenght at 50°C, Pa, within	100-420	140-640	GOST 7143
7. Effective viscosity at minus 20°C (average gradient of the strain rate $10 \text{ s}^{-1}$ ), Pa·s, no more than	1600	2000	GOST 7163
8. Water resistance, grade, no less than	1B		
9. Lubricating properties at the four-ball friction machine: <ul style="list-style-type: none"> <li>• welding load, (Rs), N(kGs), n/m</li> <li>• critical load, (Rs), N(kGs), n/m</li> <li>• scoring index, (Si), no less than</li> <li>• wearout rate (196N), mm, no more than</li> </ul>	3283 980 440 0,45		GOST 9490 ASTM D 2596
10. Kinematic viscosity of the base oil, $\text{mm}^2/\text{sec}$ , not less than: <ul style="list-style-type: none"> <li>at (+40)°C</li> <li>at (+100)°C</li> </ul>	250-320 21.5-24.0		ASTM D445

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