

MULTIPURPOSE GREASE

Molyroll EP 1, 2, 3

Specification

NLGI 1, 2, 3;

Structure

Composition of petroleum oils that are thickened by lithium-12-hydroxy stearate and contains functional active additives for improved protective, anti-oxidation and adhesive properties of grease.

Contains 2% of molybdenum disulfide (MoS₂).

Application area

Series of **Molyroll EP** multipurpose greases is intended for lubrication of different friction units of industrial equipment and vehicle mechanisms (all types of antifriction bearings, including sliding, rolling bearings and swivel joints (constant-velocity joints) etc.), that operates under conditions of high loads, vibrations and extreme pressures.

Molyroll EP 1 grease with a low-temperature flow is designed for centralized lubrication systems of friction units of casting, forging,

pressing and other industrial equipment and machinery.

Molyroll EP 2 and **EP 3** are embedded greases for different machinery and equipment.

Application temperature range for greases: from **minus 40** to **120 °C**.

Key performance properties

- good lubricating properties;
- excellent anti-corrosion, anti-oxidation and repellent properties;
- good mechanical stability;
- reliable at low temperatures;
- molybdenum disulfide ensures the additional protection of units under shock loads, some of it remains in unit and protect metal surfaces even with the lack of grease.

Physical and chemical properties

Properties	Molyroll EP			Test methods
	1 KPF1K-40	2 KPF2K-30	3 KPF3K-30	
Compliance with classifications: NLGI DIN 51502				
Thickener	Li+MoS ₂			
Operating temperature, °C	-40.. 120 (+130)	-30.. 130 (+140)	-30.. 130 (+140)	
Appearance	Homogeneous smooth ointment colored from light gray to black			GSTU 38.001
Kinematic viscosity of the base oil, mm ² /sec, not less than: at (+40)°C at (+100)°C	100-150 11-14,5	100-150 11-14,5	100-150 11-14,5	GOST 33
Worked penetration at 25°C (60 double strokes), m × 10 ⁻⁴ , within	310-340	265-295	220-250	GOST 5346
Pour point, °C, not lower than	185	190	190	GOST 6793
Colloid stability, % of separated oil, not more than	20	15	12	GOST 7142
Mass fraction of free alkalis recounted to NaOH, %, not more than	0,2			GOST 6707
Shear strength at 50°C, Pa, not less than	150	200	300	GOST 7143
Corrosion on metals	Passes			GOST 9.080
Mass fraction of water, %, not more than	Traces			GOST 2477
Tribological properties on four-ball machine: • welding load, (Rs)□N(kGs)□nm	3685	3685	3685	GOST 9490

Shelf life: 3 years from the manufacturing date.