

INDUSTRIAL HIGH TEMPERATURE GREASE

SKS 300 m -1, -2

TS U 23.2-30802090-132:2009

NLGI 1/2; 2

Composition

Blend of oils thickened by complex over-alkaline calcium sulphonate with addition of anti-wear, EP and antioxidant additives.

Sphere of application

Grease **SKS 300 m** recommended for lubrication of bearings and other other friction units of industrial equipment, which works under extreme loads, high temperatures and contact with water:

- metallurgy and mining industry, quarry works;
- sea and river ports: harbour cranes, equipment of dock works;
- other industrial equipment, when reduction of costs for maintenance is needed.

Operating temperature range: from **minus 20 (minus 25)** to **180 (190) °C**.

SKS 300 m-1 (NLGI 1/2) is used for centralized lubrication systems and forced feed of grease devices. **SKS 300 m-2 (NLGI 2)** is used as mortgage grease.

Main performance characteristics

- perfect mechanical and high temperature stability;
- high extreme pressure and anti-wear properties;
- good adhesion to metal surfaces;
- high water resistance – even if to add large amount of water structure of grease change insignificantly;
- perfect protection against oxidation and corrosion, even in contact with sea water;
- does not contain lead and other heavy metals.

Physical and chemical properties

Index name	SKS 300 m-1	SKS 300 m-2	Test methods	
Classification match	NLGI DIN 51502	1/2 KP1/2R-25	2 KP2R-20	
Thickener	k- Sulfonate Ca		GOST	ASTM
Operating temperature, °C	-25 ... 180	-20 ... 190		
Appearance: ointment	Homogenous smooth brown		GSTU 38.001	
Kinematic viscosity of the base oil, mm ² /sec, not less than: at (+40)°C at (+100)°C	280-350 24-27	280-350 24-27	33	D445
Penetration at 25°C with stirring (60 double cycles), m × 10 ⁻⁴ , within	280-320	250-280	5346	D217
Dropping point, °C, no lower than	300		6793	D566
Colloid stability, % of selected oil, no more than	4	3	7142	D1742
Evaporation at 120°C within 1 hour, %, no more than	2	1,5	9566	D972
Shear strength at 50°C, Pa, within	120	200	7143	D1831
Effective viscosity at minus 20°C (average gradient of the strain rate 10 s ⁻¹), Pa·s, no more than	800	1100	7163	D1092
Water resistance, grade, no less than	1a ,1b			none
Corrosion influence on metals	Withstands		9.080	D4048
Water content, %, not more than	0,4		2477	D95
Lubricating properties at the four-ball friction machine: • welding load, (Rs), N(kGs), n/m • critical load, (Rs), N(kGs), n/m • wearout rate (196N), mm, no more than	4136 1230 0,5		9490	D2596/ D2266

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