

GEAR OILS

Gear Oils

Special Oil ART-68, -100, -150

TS U 23.2-36451680-166:2011

Structure

Made on the basis of mineral petroleum oil selective treatment. Contain additives to improve lubrication, anti-wear, anti-corrosion and anti-oxidation properties.

Application area

Gear oils Special Oil ART series is designed for all types of gears, worm and helical gears lubrication of various industrial equipment:

metal and woodworking machines, hammers, presses, casting and molding machines, winches, rolling mills, overhead cranes, conveyors, elevators, lifts, rotary kilns, calenders, paper manufacturing equipment,

coal combines, textile and spinning machines and other equipment that cannot use oils without additives because of high loads.

Key performance properties

- typical fretting wear resistance (*reducing of the gear teeth wear, operating costs reducing, machines performance and life cycle increasing*);
- improved resistance to high-temperature decomposition (*increasing the lubricant service cycle with lower costs, reducing planned downtime and maintenance reduction due to minimal sludge and deposits*);
- steel surfaces' protection from corrosion

Physical and chemical properties

Properties	Special Oil ART			Test Method
	68 CLP	100 CLP	150 CLP	
The oil comply with the international classifications : ISO VG DIN 51517.3				
Kinematic viscosity at (+40)°C, mm ² /sec	61–75	90–110	140–160	GOST 33
Viscosity index, not less than	100	100	100	GOST 25371
Acid number, mg KOH per 1 g of oil, not more than	0,05	0,05	0,05	GOST 5985
Color on colorimeter CNT with mixing 15/85, units CNT, not more than	3,0	3,0	4,0	GOST 20284
Sulfur mass fraction, %, not more than	0,5	0,5	0,5	GOST 1437-75
Coking tendency, %, not more than	0,5	0,5	0,8	GOST 19932
Density at +20°C, kg/m ³ , not more than	910	910	910	GOST 3900
Temperature, ° C: • flash point not lower • pour point not higher	210 -20	210 -20	220 -18	GOST 4333 GOST 20287
Mass fraction,%, not more: • mechanical impurities • water	0,01 Traces	0,01 Traces	0,01 Traces	GOST 6370 GOST 2477
Oxidation stability, not more than • viscosity change at 40°C, % • acid number change, mg KOH/g	3 0,15	3 0,15	3 0,15	GOST 981
Metal corrosion in the oil	Pass			GOST 2917
Tribological characteristics at (20 ± 5) ° C: • scuff index, N, not less • deterioration index (196N), mm, not more	490 0,5	490 0,5	490 0,5	GOST 9490

Guaranteed storage: 3 years after manufacturing.