

## Gazpromneft Reductor - WS 100, 150, 220



Gearboxes



Excellent low-temperatures properties



EP properties



High-quality mineral base oils

Gazpromneft Reductor WS – series of gear oils, developed for all-season use in gears of industrial gearboxes, operating in low temperatures conditions. Oils have high performance characteristics and can be used in gearboxes, where DIN 51517 Part 3 level of performance and improved low-temperatures parameters are required to ensure high productivity.

### Characteristics/Advantages/Potential benefits

- Good low-temperatures characteristics → oil retains fluidity at low temperatures → use in gearboxes, operating outdoors
- High EP parameters → protection gear teeth from chipping → maintaining of equipment operating resource
- Wear minimization → necessary protection of working surfaces of the gear teeth and bearings from wear → reduction of additional spare parts costs
- Stability against thermal degradation → oil minimizes deposits formation in a system → reducing the risks of gearbox overheating
- Foam formation stability → minimization of foam formation, which impairs gear teeth lubricating → maintaining gearboxes service life

### Applications

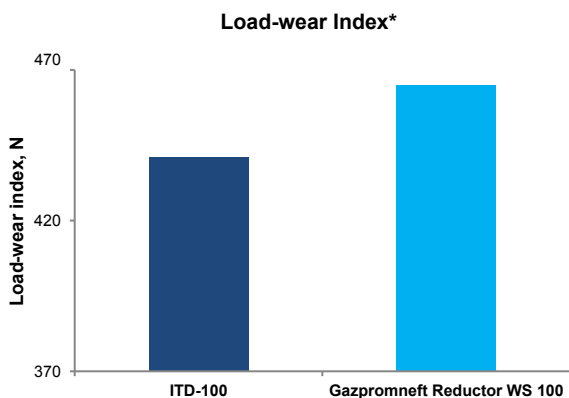
- Heavy-duty mechanical drives of industrial equipment, operating in conditions of low temperatures – ISO 100 – down to -30°C, ISO 150 – down to - 25°C, ISO 220 – down to - 20°C
- All season application in enclosed industrial gearboxes of modern equipment for various purposes with spur, helical, cylindrical and bevel gears
- Use in industrial gearboxes, where usage of DIN 51517 Part 3 oils level is indicated

Specifications	ISO Viscosity Grade		
	100	150	220
DIN 51517 Part 3	✓	✓	✓
AGMA 9005-E02	✓	✓	✓

## Typical physical and chemical characteristics

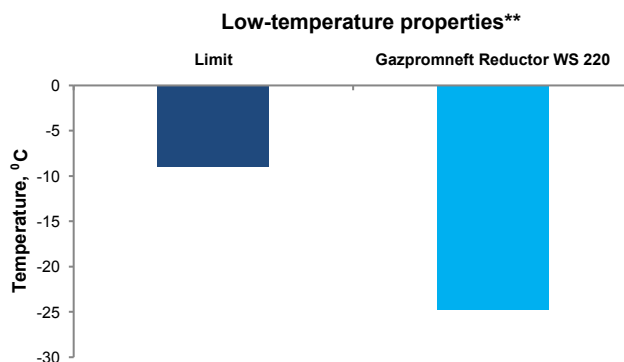
Parameters	Method	ISO Viscosity Grade		
		100	150	220
Kinematic Viscosity @40°C, mm²/s	ASTM D 445	100	150	220
Viscosity Index	ASTM D 2270	93	95	92
Flash Point (COC), °C	ASTM D 92	236	242	248
Pour Point, °C	GOST 20287	-35	-30	-25
Copper Strip Corrosion, 3 hrs @ 100°C	ASTM D 130	1B	1B	1B

Gazpromneft Reductor WS series oils demonstrate high performance in tests compared to standards limits:



Gazpromneft Reductor WS series oils have enhanced EP properties, effectively protecting gear teeth.

\*GOST 9490 test; \*\*GOST 20287 test



Pour Point of Gazpromneft Reductor series oils ensures gearboxes operation, used outdoors.

The company's management system is certified in accordance with the international standards

ISO 9001



ISO 14001



ISO 45001

