

Gazpromneft Reductor CLP – 68, 100, 150, 220, 320, 460 and 680

Industrial Gear Oils



Industrial gears



High EP properties



Excellent resistance to oil oxidation and thermal degradation



Excellent demulsibility



Mineral

Gazpromneft Reductor CLP are high performance industrial gear oils with superior extreme pressure characteristics, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems. Gazpromneft Reductor CLP balanced formulation is able to provide maximum wear and corrosion protection while maintaining compatibility with common gearbox seal materials. These mineral oils are designed to provide high quality protection of industrial gears, meeting the latest industry standards and with high versatility to lubricate a broad range of industrial equipment. They may also be used in non-gear applications include highly loaded and slow speed plain and rolling contact bearings.

Applications

- Industrial gearboxes of conveyers, agitators, dryers, extruders, fans, mixers, presses, pulpers, pumps (including oil well pumps), screens, extruders and other heavy duty applications
- Industrial gearboxes with spur, helical, bevel, herring-bone, epicyclic gears
- Non-gear applications include shaft couplings, screws and heavily loaded plain and rolling contact bearings operating at slow speeds

Features	Advantages and Potential Benefits
High load carrying capacity	Reduces gear tooth and bearing wear on both steel and bronze components to prolong the life of equipment
Enhanced gear wear protection	Less gear and bearing wear resulting in less unexpected downtime
Excellent resistance to oil oxidation and thermal degradation	Helps extend lubricant life with lower lubricant and lubrication costs and reduced scheduled downtime
Resistance to foaming and emulsion formation	Effective lubrication and problem free operation in the presence of water contamination or in equipment prone to oil foaming
Optimized resistance to rust and corrosion of steel, copper and soft metal alloys	Excellent protection of machine parts, with reduced maintenance and repair costs
High resistance to sludge and deposit formation	Cleaner systems and reduced maintenance
Good compatibility with seal materials	Reduced leakage, oil consumption and contamination entering helping to reduce maintenance, extend gearbox reliability and higher productivity

Gazpromneft Reductor CLP series meets the requirements of

Specifications	Gazpromneft Reductor CLP						
	68	100	150	220	320	460	680
DIN 51517 Part 3	✓	✓	✓	✓	✓	✓	✓
AGMA 9005-E02	✓	✓	✓	✓	✓	✓	✓
AIST 224	✓	✓	✓	✓	✓	✓	✓
David Brown S1.53.101(E)	✓	✓	✓	✓	✓	✓	✓
Danieli			✓	✓	✓	✓	✓

Gazpromneft Reductor CLP series has the following builder approvals

Specifications	Gazpromneft Reductor CLP						
	68	100	150	220	320	460	680
Fives Cincinnati			P-77	P-74			

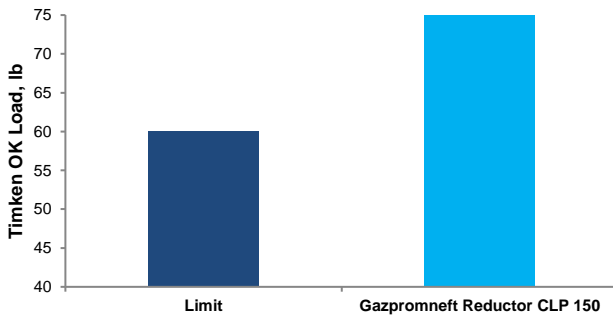
Gazpromneft Reductor CLP series recommended for use where following specifications are required

Specifications	Gazpromneft Reductor CLP						
	68	100	150	220	320	460	680
ISO 12925-1 (L-CKC/CKD)	✓	✓	✓	✓	✓	✓	✓
ISO 6743-6 (L-CKC/CKD)	✓	✓	✓	✓	✓	✓	✓

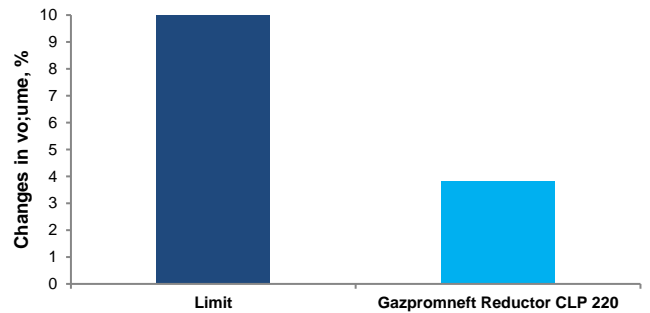
Typical Characteristics

Properties	Method	Gazpromneft Reductor CLP						
		68	100	150	220	320	460	680
ISO Viscosity Grade		68	100	150	220	320	460	680
Kinematic Viscosity @40°C, mm²/s	ASTM D445	68	100	150	220	320	460	680
Viscosity Index	ASTM D2270	97	95	95	95	93	93	90
Flash Point (COC), °C	ASTM D92	238	240	242	252	254	280	294
Pour Point, °C	ASTM D97	-26	-21	-22	-18	-17	-15	-15
Total Acid Number, mg KOH/g	ASTM D664	0,7	0,7	0,7	0,7	0,7	0,7	0,7
4-Ball Load-wear Index, N	ASTM D2783	477	470	470	480	509	530	558
4-Ball Wear Scar Diameter, mm	ASTM D4172	0,25	0,25	0,26	0,27	0,28	0,26	0,27
Copper Strip Corrosion, 3 hrs @ 100°C	ASTM D130	1B	1B	1B	1B	1B	1B	1B
Density @15°C, kg/m³	ASTM D4052	887	892	896	902	904	906	913

High load carrying capacity*



Good compatibility with seal materials**



*ASTM D2782; **DIN ISO 1817

Health, Safety & Environment

Information is provided for products in the relevant Safety Data Sheet (SDS). This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products. SDS's are available upon request through your sales contract office. This product should not be used for purposes other than its intended use.