

## Gazpromneft Reductor F Synth

High Performance Industrial Gear Oils



Industrial gears



High EP properties



Excellent resistance to oil oxidation and thermal degradation



Resistance to emulsion formation



Resistance to foaming



Synthetic

**Gazpromneft Reductor F Synth** are reduction gear oils based on high quality base oils combined with specially selected additives, offering an outstanding lubrication performance under the severest operation conditions, improved gear efficiency as well as high micropitting resistance for an optimal gear protection. Gazpromneft Reductor F Synth provide exceptional oil life and deposit control and thermal/oxidation resistance and protection from chemical degradation, as well as the balance of the performance features. These oils also provide excellent low temperature fluidity and it is a key benefit for low ambient temperature applications. Meet Flender (rev.15) specification requirements.

### Applications

- Enclosed industrial reduction gear systems operating under severe operating conditions, such as high load, very low or elevated temperatures and wide temperature variations
- Industrial gearboxes with spur, helical, bevel, herring-bone, epicyclic gears
- Gazpromneft Reductor F Synth oils applicable for use in Flender gearboxes (rev. 15)

Features	Advantages and Potential Benefits
High protection from micropitting fatigue wear and resistance to scuffing wear	Helps extend gear and bearing life in enclosed gear drives operating under extreme conditions of load, speed and temperature. Helps reduce unplanned downtime for less maintenance - especially critical for difficult to access gearboxes.
High viscosity index equating to reduced viscosity change with temperature	Ability to operate at both high and low temperatures: especially critical in remote applications with no oil cooling or heating
Excellent resistance to degradation at high temperatures	Helps extend oil life and drain intervals and reduce oil consumption, which can lower maintenance costs
Strengthened foaming protection	Effective lubrication and problem free operation in equipment with tendency to oil foaming
Compatibility with a range of seal materials	Reduced leakage and oil consumption helping to reduce maintenance, extend gearbox reliability and higher productivity

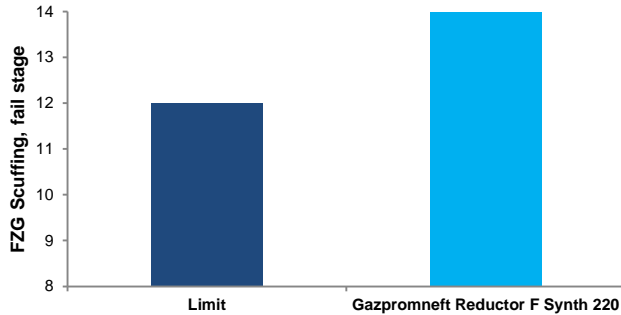
### Gazpromneft Reductor F Synth series meets the requirements of

Specifications	Gazpromneft Reductor F Synth			
	150	220	320	460
DIN 51517 Part 3	✓	✓	✓	✓
Flender Rev.15	✓	✓	approved	approved
AGMA 9005-E02	✓	✓	✓	✓

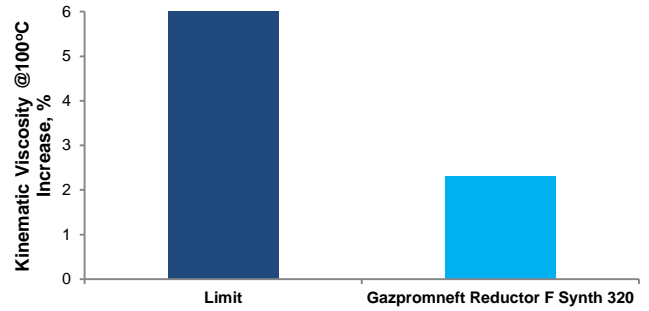
## Typical Characteristics

Properties	Method	Gazpromneft Reductor F Synth			
		150	220	320	460
ISO Viscosity Grade		150	220	320	460
Kinematic Viscosity @40°C, mm <sup>2</sup> /s	ASTM D445	150	220	320	460
Kinematic Viscosity @100°C, mm <sup>2</sup> /s	ASTM D445	20,3	27,6	37,9	48,9
Viscosity Index	ASTM D2270	159	163	166	168
Flash Point (COC), °C	ASTM D92	228	235	238	240
Pour Point, °C	ASTM D97	-38	-37	-35	-34
Density @15°C, kg/m <sup>3</sup>	ASTM D4052	877	884	889	898
FZG Scuffing, A/8.3/90, Fail Stage	DIN ISO 14635-1	>14	>14	>14	>14
FZG Scuffing, A/16.6/90, Fail Stage	DIN ISO 14635-1	>12	>12	>12	>12

Improved EP properties\*



Excellent oxidation stability\*\*



\*FZG A/8.3/90; \*\*S-200 Oxidation (312h., 121°C)

## 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.