

Gazpromneft Reductor F

High-quality gear oils

DESCRIPTION

Gazpromneft Reductor F gear oils are designed to meet the requirements of Siemens AG (Rev.13) for lubricants used in Flender gear reducers with helical, bevel, or epicyclic gears. Base oils and additives composition deliver high resistance to oxidation and micro-pitting, as well as reduction of contact area load. **Gazpromneft Reductor F** oils are compatible with most seal materials used in gears. They allow for reducing the list of oils used for gear lubrication.

APPLICATION

Flender closed gear reducers with oil circulating systems or centrifugal lubrication; closed gear reducers of other OEMs, industrial equipment gears subjected to medium, high or shock loads; circulating systems of other mechanisms operating under high loads; hot presses and other heavy-duty equipment where the use of oils meeting DIN 51517 Part 3 (CLP) standard is required.

A properly chosen lubricant allows for reducing repair and maintenance costs, extending equipment service life and increasing capacity.

BENEFITS

Anti-wear properties

Anti-wear and anti-welding additives extend equipment life and retain gear teeth shape protecting their surface from welding and micro-pitting. The oils provide equal load distribution between gear teeth; adsorbed additive films prevent metal-to-metal contact. Gazpromneft Reductor F oils exhibit excellent anti-wear performance: 12 cycles of FZG test method (double speed) (DIN ISO 14635-1) and micro-pitting testing (grey stains; FVA 54 I-IV test method at 90°C – 10 fail).

Oxidation resistance

Thoroughly selected base stocks provide resistance to oxidation at high temperatures without lacquer formation – what have been proved by Siemens AG tests results (for gear oils used in Flender Gear Reducer). Under the above specification, **Gazpromneft Reductor F** service life is at least 10,000 operating hrs. or two years.

Corrosion protection

High-quality base oils deliver superior anti-corrosion performance and protect equipment against rust in idle mode as well.

High anti-foaming performance

Gazpromneft Reductor F oils feature excellent anti-foaming performance that prevents viscosity and load capacity reduction and resists early oxidation of oil. The oils successfully passed Flender Foam Test.

Seal compatibility

Compatible with most seal materials used in gears, both solid and liquid polymer seals, as well as internal painted surfaces. Retains seal structure minimizing oil leaks and contamination.

SPECIFICATIONS AND APPROVALS

Gazpromneft Reductor F oils approved:

FLENDER Rev.13 License No. A-GP-2012081.

Gazpromneft Reductor F oils comply with:

DIN 51517 Part 3 (CLP).

TYPICAL PROPERTIES

Gazpromneft Reductor F				
ISO Grade	150	220	320	460
Viscosity, cSt @ 40°C	150	220	320	460
cSt @ 100°C	14	18	23	29
VI	96	96	97	98
Flash Point, COC, ^o C	230	235	235	250
Pour Point, ⁰ C	-12	-9	-9	-9
Acid Number, mg KOH/g	0.6	0.6	0.6	0.6
Color	2	2.5	3	4
Density @ 15 ^o C, kg/m ³	890	890	900	900
FZG A/8,3/90 (πο DIN ISO 14635-1), stage	>12			
FZG A/16,6/90 (πο DIN 14635-1), stage	>12			

HEALTH AND SAFETY

Proper industrial and personal hygiene, as well as proper application of Gazpromneft Reductor F will not produce adverse effects on health. The lubricants refer to Hazard Class 4, and to Hazard Class 3 as oil mist (GOST 12.1.007). Avoid contact with skin. Use protective gloves. In case of contact, flush immediately with water and soap.

Use the product according to its intended purpose. Gear oils are flammable liquids with flash point not less than 210°C (GOST 12.1.044). Observe all of laws, rules, regulations and agreements relevant to the environment. Collect and deliver exhaust oils to exhaust fluids reception station. Do not discharge the remaining and exhaust oil into city sewer system, soil or water bodies.

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