

Eaton FE 75W-90 Fuel Efficient Synthetic Gear Lubricant



COMPONENT APPROVALS

Dana SHAES- 256 Rev C
Meritor O76-N
Navistar MPAPS B-6821
Mack GO-J Plus
SAE J2360 / MIL-PRF-2105E
API MT-1
API GL-5

FE 75W-90 synthetic gear lubricant is an API GL-5 extreme pressure gear lubricant for improved fuel economy in heavy, mid- and light-duty applications compared to typical petroleum 80W-90 or synthetic 75W-90 gear lubricants. It is formulated using synthetic basestocks, which have a high viscosity index and an exceptionally low pour point. This lubricant contains extreme pressure additives, as well as rust, oxidation and corrosion inhibitors to protect gears and bearings operated under a wide variety of load conditions.

The fluid also has an optimized viscosity to allow lower churning losses and still maintain adequate bearing and gear protection. The high and low temperature performance of this product exceeds those of conventional SAE 90, 75W-90 and 80W-90 hypoid gear lubricants.

Features:

- Eaton FE 75W-90 synthetic gear lubricant outperforms conventional gear lubricants to promote longer gear life and better operating economy.
- Better operating performance – As a result of the superior lubricating properties and low viscosity profile of Eaton FE 75W-90, improved fuel mileage can be realized.
- Increased gear life – These extreme pressure (EP) lubricants result in longer gear life by providing extremely high film strength and superior low temperature performance. They also have anti-rust and anti-corrosion properties to further promote extended gear and bearing life.

- Extended drain, all-season lubrication – With an extremely low channel point and high viscosity index, this lubricant provides excellent performance over a broad temperature range. Furthermore, Eaton FE 75W-90 resists oxidation; it will last significantly longer than conventional gear oils.
- Reduced maintenance and downtime – All of the foregoing advantages of this lubricant translate directly into reduced maintenance and less downtime.

Applications:

Recommended for applications where heat and wear present major problems. These applications include differentials including limited slip, and transfer cases for heavy equipment, trucks, tractors and industrial gear drives where EP type lubricants are recommended. Automobiles, light duty trucks and farm machinery are other potential uses of this lubricant.

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Eaton® FE 75W-90 Fuel Efficient Synthetic Gear Lubricant

Technical Data

Typical Characteristics	Eaton FE 75W-90	Test Method
SAE grade	75W-90	J-306
Viscosity, cSt 100 °C 40 °C	15.0 103	ASTM D-445
Viscosity, SUS 210°C 100°C	72 620	ASTM D-2161
Viscosity, cP -18 °C (0 °F) -29 °C (-20 °F) -40 °C (-40 °F)	5,850 20,750 90,000	ASTM D-2983
Viscosity index	152	ASTM D-2270
Flash point, °C (°F)	215 (420)	ASTM D-92
Pour point, °C (°F)	<45 (<49)	FTMS-3456
Density, g/l at 15.6 °C, (lbs/gal. at 60 °F)	891 (7.39)	ASTM D-97
Foam test Sequence I Sequence II Sequence III	pass pass pass	ASTM D-892
Copper strip corrosion 3 hrs at 100°C (212° F) 3 hrs at 121°C (250°F)	1a pass 1a pass	ASTM D-130
FZG, load stage, pass	12	ASTM D-5182

* BASF Product Code: 2986

** BASF Synlub technology is certified under ISO 9001 and ISO TS 16949

Technical Application Data

Performance benefits of Eaton FE 75W-90 over conventional gear lubricants:

- Fuel economy: quantifiable fuel savings
- 1% plus improvement, Industry and fleet testing methods
- Longer axle component life
- Reduced gear wear
- Less frequent maintenance, less oil disposal
- Increased vehicle uptime
- Longer component life
- Improved protection in extreme conditions
- Severe low and high temperature properties
- Extended drain and extended warranty protection
- Genuine OEM equipment

Handling

Please refer to safety data sheet for details.

Shelf Life

Subject to appropriate storage in closed original containers under the usual storage and temperature conditions, Eaton FE 75W-90 is stable for at least three years.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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