

TITAN FFL-8

Premium Performance DCTF. Specially developed for ZF / Porsche Double Clutch Transmission with wet clutch. Provides optimized friction properties and best load carrying capacity even under hard conditions over the whole lifetime.

Description

TITAN FFL-8 is a special gearbox oil developed for use in ZF double clutch transmissions (DCT). The innovative additive technology has been specially developed in cooperation with ZF to meet the high and varied requirements of ZF gear units. It ensures optimum friction properties and precise and fast shifting even under the most extreme loads. Moreover TITAN FFL-8 meets the complex non-ferrous heavy metal and electronic component compatibility requirements, which is of critical importance for the proper functioning of the electrical/hydraulic control circuit. TITAN FFL-8 also guarantees optimum wear and tear protection across the entire component lifecycle.

Application

TITAN FFL-8 has been specially developed for use in ZF dual clutch transmissions. TITAN FFL-8 has the approval according to ZF TE-ML 11 for ZF 8-speed dual clutch transmissions. This transmission family is used in various Porsche models (Porsche PDK).

TITAN FFL-8 must not be mixed with other gear oils in order to ensure proper functioning of the gearboxes. For information on product safety and proper disposal please refer to the latest Material Safety Data Sheet.

Note: This product has been previously marketed under PENTOSIN FFL-8.

Advantages/Benefits

- Coefficient of friction characteristics specially adapted to ZF dual clutch systems. This provides optimum shifting behavior even at the highest loads and sporty driving conditions
- Combines best wear protection with excellent friction stability
- Further increase in fuel efficiency
- Reliable protection against corrosion and sludge
- Excellent compatibility with non-ferrous metals and electronic components of the hydraulic control circuit
- Optimized foam behavior

Specifications

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Approvals

- ZF TE-ML 11

FUCHS Recommendations

- PORSCHE 000 043 210 44
- PORSCHE 971 094 307 02A

TYPICAL CHARACTERISTICS

Density at 15 °C	DIN 51757	839 kg/m ³
Kinematic Viscosity at 40°C	DIN 51562-1	25.3 mm ² /s
Kinematic Viscosity at 100°C	DIN 51562-1	5.4 mm ² /s
Viscosity index	DIN ISO 2909	155
Pour point	DIN ISO 3016	-60 °C
Appearance	DIN 10964	none

Product Information



The information contained in this brochure is based on the experience and know-how of FUCHS LUBRICANTS CO. in the development and manufacturing of lubricants and represents the current state-of-the-art. The performance of our products can be influenced by a series of factors, especially the specific use, the method of application, the operational environment, component pre-treatment, possible external contamination, etc.

For this reason, universally-valid statements about the function of our products are not possible. The information given in this Product Information sheet represents general, non-binding guidelines. No warranty expressed or implied is given concerning the properties of the product or its suitability for any given application.

We therefore recommend you consult a FUCHS LUBRICANTS CO. Application Engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

Our products undergo continuous improvement. We therefore retain the right to change our product program, the products, and their manufacturing processes as well as all details of our Product Information sheets at any time and without warning. With the publication of this Product Information sheet, all previous editions cease to be valid.

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