

Product Information

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TITAN FFL-3

Premium Performance DCTF. Specifically developed for ZF/Porsche double-clutch transmissions with wet clutch.

Description

TITAN FFL-3 is a special transmission oil that was developed in an exclusive partnership with ZF /Porsche for the specific demands of ZF/Porsche double-clutch and manual transmissions. TITAN FFL-3 was developed to meet modern requirements; it is based on selected base oils and state-of-the-art additive technology. It ensures optimum friction properties and precise/fast shifting even under the most extreme loads. Moreover TITAN FFL-3 meets the complex non-ferrous metal and electronic component requirements, which are of critical importance for the proper functioning of the electrical /hydraulic control circuit. TITAN FFL-3 offers optimum wear and tear protection throughout the component's life cycle.

Application

TITAN FFL-3 was developed specifically for use in ZF double-clutch and manual transmissions. TITAN FFL-3 is the only product that has been exclusively approved for use in ZF 7-speed double-clutch transmissions pursuant to ZF TE-ML 11. This range of transmissions is installed in a wide range of Porsche models (Porsche PDK). Furthermore, TITAN FFL-3 has been exclusively approved for ZF S6-35/S6-45 manual transmissions, which are installed by manufacturers such as BMW, Mercedes-Benz and Jaguar Land Rover. The product must be homogenized before use. To maintain the unobjectionable operation of the transmission, TITAN FFL-3 must not be mixed with any other transmission oil. For information on product safety and proper disposal please refer to the latest Material Safety Data Sheet. Note: This product was previously marketed as PENTOSIN FFL-3.

Advantages

- Friction characteristics specifically optimised for the ZF/Porsche double-clutch system.
- Excellent friction stability for constantly smooth gear shifting throughout the oil drain interval.
- Excellent wear protection.
- Superior protection against foaming.
- Outstanding compatibility with non-ferrous metals and electric components of hydraulic control circuits.
- Suitable for selected hybrid vehicles subject to OEM requirements.
- Only approved product according to MB 236.24!

Specifications

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Approvals

- MB-APPROVAL 236.24
- ZF TE-ML 11 (ZF004742)

FUCHS Recommendations

- BMW 83 22 2 156 969 (MTF-LT-5)
- BMW 83 22 2 167 666 (MTF-LT-5)
- JAGUAR LAND ROVER GX73-M1R564-AA
- PORSCHE 999 917 080 00

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TYPICAL CHARACTERISTICS

Density at 15°C	DIN EN ISO 12185	842 kg/m ³
SAE Grade	SAE J306	75W-75
Kinematic Viscosity at 40°C	DIN EN ISO 3104	34.7 mm ² /s
Kinematic Viscosity at 100°C	DIN EN ISO 3104	7 mm ² /s
Viscosity Index	DIN ISO 2909	168
Pour Point	ISO 3016	-54 °C
Product Dyeing	DIN 10964	none

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Notes

The information contained in this product information is based on the experience and know-how of FUCHS LUBRICANTS (UK) plc 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.

Our products must not be used in aircraft or spacecraft. Our products may be used in manufacture of components for aircraft or spacecraft if they are removed without residue from the components prior to assembly into the aircraft or spacecraft.

The information given in this product information 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 that you consult a FUCHS LUBRICANTS (UK) plc 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, unless otherwise provided in customer-specific agreements. With the publication of this product information, all previous editions cease to be valid. Any form of reproduction requires express prior written permission from FUCHS LUBRICANTS (UK) plc.

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