

# Product Information

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## TITAN FFL-10

**Premium Performance DCTF. Specifically developed for Mercedes-Benz double-clutch transmissions with wet clutch. Provides optimum wear protection and excellent friction properties even under highest loads. Offers an optimum shifting performance throughout the lifetime of the transmission.**

### Description

TITAN FFL-10 is a special transmission oil that was developed in an exclusive partnership with Mercedes-Benz for the specific demands of Mercedes-Benz double-clutch transmissions. It ensures optimum friction properties and precise/fast shifting even under the most extreme loads. Moreover TITAN FFL-10 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-10 offers optimum wear and tear protection throughout the component's life cycle. Significant improvements in fuel economy and CO<sub>2</sub> emissions were achieved by lowering the dynamic viscosity and employing a new additive technology of TITAN FFL-10.

### Application

TITAN FFL-10 was developed particularly for use in Mercedes-Benz 8-speed double-clutch transmissions. It has been exclusively approved according to MB 236.22. The product must be homogenized before use. To maintain the unobjectionable operation of the transmission, TITAN FFL-10 must not be mixed with any other transmission oil. In order to fully exhaust the products benefits mixing with other gear oils should be avoided and a complete oil drain is recommended before converting to TITAN FFL-10. 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-10.

### Advantages

- Friction characteristics specifically optimised for the Mercedes-Benz 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.
- Outstanding fuel efficiency and thus reduced CO<sub>2</sub> emissions.
- Suitable for selected hybrid vehicles subject to OEM requirements.
- Only approved product according to MB 236.22!

### Specifications

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### Approvals

- MB-APPROVAL 236.22

### FUCHS Recommendations

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## TYPICAL CHARACTERISTICS

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Density at 15°C	DIN 51757	0.842 g/ml
SAE Grade	SAE J306	70W-65
Kinematic Viscosity at 40°C	DIN 51562-1	18.2 mm <sup>2</sup> /s
Kinematic Viscosity at 100°C	DIN 51562-1	4.2 mm <sup>2</sup> /s
Viscosity Index	DIN ISO 2909	140
Pour Point	DIN ISO 3016	-42 °C
Product Dyeing	DIN 10964	green

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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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