



# SPECIFIC LL-12 FE 0W-30



**Gasoline & Diesel engine oil – BMW**

**100% Synthetic**

## TYPE OF USE

High Performance 100% Synthetic **Fuel Economy** Engine Oil specially designed for BMW & MINI recent vehicles fitted with Gasoline and Diesel requiring an approved BMW Long Life -12 FE lubricant. Suitable also for Gasoline and Diesel engines requiring a 0W-30 viscosity grade Fuel Economy lubricant type with ACEA C2 standards.

Compatible with catalytic converters (CAT) and Diesel Particulate Filters (DPF).

Suitable for all types of fuels: gasolines, diesels and biofuels.

Before use always refer to the owner manual of the vehicle.

## PERFORMANCES

STANDARDS

ACEA C2

APPROVALS

**BMW LL-12 FE**

This 100% Synthetic engine oil is formulated to lubricate perfectly the latest generation of BMW and MINI Gasoline and Diesel engines requiring the specification BMW LL-12 FE.

The BMW Longlife-12 FE norm is required for the Gasoline and Diesel engines from MY2012/2013, but especially for the Nx7K1, Nx7U1 and Nx701 engines European Union countries, Norway, Switzerland and Lichtenstein.

The BMW Longlife-12 FE standard is only suitable for BMW Diesel engines certified for this purpose and produced from model year 2014 (all 3-cylinder B37 engines, 4-cylinder engines from model year 2014 and 6-cylinder engines from model year 2013) fitted with one turbocharger maximum, and for all BMW Gasoline engines from model year 2002, and is restricted only to the European Union countries, Norway, Switzerland and Liechtenstein. BMW LL-12 FE specification is not valid for engines fitted with 2 or 3 turbochargers. If in doubt, always refer to the owner manual of the vehicle.

Associated with ACEA C2 standard for lubricants, MOTUL SPECIFIC LL-12 FE 0W-30 provides significant energy savings (up to 1.5% compare to the BMW LL-01 reference lubricant) while exceeding robustness requirements of BMW LL-04 specification. This improved fuel economy and low emissions performance meet these OEMs requirements for CO<sub>2</sub> emissions reductions.

MOTUL SPECIFIC LL-12 FE 0W-30 delivers outstanding oil film resistance, while facilitating cold start, reducing friction in the engine, maintaining the oil pressure and lowering engine operating temperatures.

Through its exceptional lubricating properties, MOTUL SPECIFIC LL-12 FE 0W-30 provides high level of wear resistance, high temperature resistance and oxidation resistance. It reduces the formation of deposits, reduces wear and enables perfect control of oil consumption.

Anti-wear, Anti-corrosion, Anti-foam properties.

We retain the right to modify the general characteristics of our products in order to offer to our customers the latest technical development

Product specifications are definitive from the order which is subject to our general conditions of sale and warranty. Made in FRANCE

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## RECOMENDATIONS

Drain interval: according to manufacturers' recommendations and to be adapted to your own use.  
MOTUL SPECIFIC LL-12 FE 0W-30 can be mixed with synthetic or mineral oils.  
Before use always refer to the owner manual of the vehicle.

## PROPERTIES

Viscosity grade	SAE J 300	<b>0W-30</b>
Density at 20°C (68°F)	ASTM D1298	0.838
Viscosity at 40°C (104°F)	ASTM D445	53.3 mm <sup>2</sup> /s
Viscosity at 100°C (212°F)	ASTM D445	9.9 mm <sup>2</sup> /s
Viscosity HTHS at 150°C (302°F)	ASTM D4741	3.0 mPa.s
Viscosity Index	ASTM D2270	175
Pour point	ASTM D97	-42°C / -44°F
Flash point	ASTM D92	228°C / 442°F
Sulfated ash	ASTM D874	0.76% weight
TBN	ASTM D2896	8.3 mg KOH/g