

# Grand EcoDrive

## 10W-30



### PRODUCT DESCRIPTION

Grand EcoDrive 10W-30 is a premium, 100% synthetic resource conserving engine oil engineered for passenger cars and commercial vehicles, operating in different climate conditions with extended service intervals.



The product is manufactured using unique antifriction ZFM™ technology and specially selected synthetic base stocks with high viscosity index and outstanding oxidation stability. Grand EcoDrive 10W-30 provides high film strength in high shear and providing robust protection of critical engine parts in high operating temperatures. The product maintains engine cleanliness, minimizes varnish, carbon deposits and sludge, hence contributing to maximum durability of the most modern hi-tech engines.

### APPLICATION

- Grand EcoDrive 10W-30 is designed for high-tech four cycle diesel and gasoline engines, which require resource conserving engine oils with low level of high temperature viscosity (HTHS  $\geq$  2.9 cSt).
- The product may be used in older engines requiring oil with previous service categories API SM/ SL.

### CUSTOMER BENEFITS

- ZFM™ Technology effectively reduces wear of components operating in boundary lubrication and contributes to maximizing engine durability.
- Excellent flow rate and pumpability provide easy cold starts in winter.
- Grand EcoDrive 10W-30 meets the requirements of "Low SAPS" oils in terms of sulfur, phosphorous and sulfated ash limits, which are essential for extended service life of three way catalytic converters (TWCs).
- The product helps achieve up to 2.0% of fuel savings and decrease emission and fully meeting stringent environmental standards.



### MEETS SPECIFICATIONS AND REQUIREMENTS OF:

- API SN/CF;
- ACEA C2;
- ILSAC GF-5.

Before using this product, ensure it is consistent with OEM's recommendations for the equipment operating conditions and customer's maintenance practices.

### TYPICAL TEST DATA

CHARACTERISTICS	UNITS	VALUES	ASTM
SAE Grade		10W-30	
Kinematic viscosity at:			
40 °C	cSt	77.18	ASTM 445
100 °C	cSt	11.64	ASTM 445
Flash point	°C	232	ASTM D92
Pour point	°C	-36	ASTM D97
Density at 30 °C	Kg/l	0.8570	ASTM D4052
Dynamic viscosity at -25°C, CCS	cPs	4931	ASTM D5293
Total Base Number, TBN	mgKOH/g	6.46	ASTM D2896
Viscosity index		144	ASTM D2270
Color		L2.0	ASTM D1500

### **STORAGE AND HANDLING GUIDELINES**

- Avoid exposing products to direct sunlight.
- Cans, packed in cardboard boxes, must be stored in dry places. Avoid exposing products to moisture.
- It is highly recommended to store drums indoors on pallets and racks.
- If stored outdoors drums should be placed sidewise to avoid accumulation of moisture.

### **HEALTH, SAFETY AND ENVIRONMENT PROTECTION**

Information on health, safety and environment protection is described in the product Safety Data Sheet (SDS). The SDS file contains details on potential hazards, precautions and first aid measures, as well as information on environmental impact and disposal of used products.

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