

PRODUCT DESCRIPTION

Extra Fuel Economy 0W-20 is a fully synthetic, Resource Conserving engine oil formulated for use in modern gasoline engines, requiring an API SN & ILSAC GF-5 oil. Its low HTHS ≥ 2.6 cSt (High Temperature High Shear) property reduces the fuel consumption. The product provides an excellent lubrication and wear protection performance across a wide range of driving conditions and climates.



Extra Fuel Economy 0W-20 is enhanced with unique anti-friction technology, ZFM[™] (Zero Friction Molecular) from synthetic basestocks (including PAO), to considerably reduce friction and wear of highly loaded engine parts that are exposed to intensive duty cycles and high operating temperatures. The product delivers an exceptional engine and emission control systems protection. Extra Fuel Economy 0W-20 maintains optimal engine cleanliness, prevents formation of varnish & deposits, thus ensuring efficient operation of modern high-performance gasoline engines.

APPLICATION

Recommended for all types of gasoline fueled engine requiring a viscosity grade of SAE 0W-20 or SAE 5W-20, Resource Conserving engine oil. For modern passenger cars, hybrid electric vehicles, plug-in hybrid electric vehicles, vans, CUVs, SUVs, and all other vehicles operating under severe urban conditions where "Stop-Start" modes are typical. Optimal choice for high-tech engines running on gasoline with ethanol E85.

WARRANTY

Extra Fuel Economy 0W-20 meets or exceeds the OEM's warranty requirements of gasoline vehicles where API SN/SM/SL and ILSAC GF-5 oil is required. TOTACHI[®] guarantees full compliance on the written specifications indicated on product labels.

CUSTOMER BENEFITS

- **Improved fuel economy**
Its low viscosity level helps increase the engine efficiency and improves fuel economy (up to 4%) compared with higher viscosity grades oils. Contributes in the reduction of harmful emissions to meet the most stringent modern environmental standards.
- **Maximized engine durability**
The use of ZFM[™] antifriction technology effectively reduces wear of parts, operating under boundary lubrication, which contributes to increase in overall service life of engine.
- **Reduced maintenance costs**
The balanced formulation with excellent stability and excellent anti oxidation properties allows extended drains and less annual maintenance.
- **Compatibility with emission control systems**
The low content of phosphorus and ash contributes to the long life of the three-component catalytic converters (TWC).
- **Optimum savings**
The combination of fuel economy and engine life longevity help consumers to save money.



MEETS SPECIFICATIONS AND REQUIREMENTS OF:

- API SN
- ILSAC GF-5
- Resource Conserving
- GM dexos 1[™] (2011)

Suitable for use in various OEMs such as DAIHATSU, HONDA, ISUZU, MAZDA, MITSUBISHI, NISSAN, SUBARU, SUZUKI, TOYOTA, Hybrid gasoline engines and others requiring a SAE 0W-20, API SN / Resource Conserving and 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	STANDARDS
SAE Grade	-	0W-20	SAE J300
Kinematic viscosity at:			
40 °C	cSt	40.8	ASTM D445
100 °C	cSt	8.0	ASTM D445
Viscosity index	-	173	ASTM D2270
Cranking viscosity at -35°C	mPa-s	4891	ASTM D5293
Color	-	L3.0	ASTM D1500
Flash point	°C	236	ASTM D92
Pour point	°C	-42	ASTM D97
Density at 30 °C	kg/L	0.851	ASTM D4052
Total Base Number	mg KOH/g	7.9	ASTM D2896

STORAGE AND HANDLING GUIDELINES

- Avoid exposing products to direct sunlight.
- Store in cool and dry places. Avoid exposing products to moisture.
- It is highly recommended to store drums indoors or under cover on pallets and racks.

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.

TOTACHI INDUSTRIAL CO. LTD. disclaims any liability in case the product is used with violation of these instructions and warnings or it is not used for its intended purpose. Before using product other than intended, consult your local TOTACHI[®] distributor.