

PRODUCT DESCRIPTION

Hyper Ecodrive 0W-20 is an innovative fuel efficiency fully synthetic, Resource Conserving, engine oil formulated for use in next-generation gasoline engines – turbocharged gasoline direct injections (TGDI), hybrid electric vehicles (HEV), plug-in hybrid electric vehicles (PHEV), range extended electric vehicles (REEV), battery-assisted hybrid vehicles (BAHV), Extended Range Electric Vehicle (EREV) and all other vehicles operating under severe urban conditions where “Stop-Start” modes are typical. Provides excellent lubrication and wear performance protection in the most severe driving conditions. Advanced formulation to increase engine’s efficiency and enhance fuel economy while giving a lasting protection to the engine. Guaranteed protection against Low Speed Pre-Ignition (LSPI) and timing chain wear.



Hyper Ecodrive 0W-20 is enhanced with unique anti-friction technology, ZFM™ (Zero Friction Molecular), to considerably reduce friction and wear of highly loaded engine parts that are exposed to intensive duty cycles and high operating temperatures. Outstanding cold weather temperature performance to ensure perfect lubrication from engine start up until full speed revolution.

APPLICATION

Recommended for all types of gasoline fueled engines requiring a viscosity grade of SAE 0W-20 API SP, ILSAC GF-6A, Resource Conserving engine oil. For passenger cars, vans, CUVs, SUVs, light duty trucks and other vehicles fitted with recent gasoline engines. Helps protect engines operating on E85 fuels.

Backward compatible to API SN PLUS, API SN, ILSAC GF-5.

WARRANTY

Hyper Ecodrive 0W-20 meets or exceeds the OEM’s warranty requirements of gasoline vehicles where API SP and ILSAC GF-6A oil is required. TOTACHI®

guarantees full compliance on the written specifications indicated on product labels.

CUSTOMER BENEFITS

- **Enhanced Fuel Efficiency**
Helps to improve fuel economy (up to 2.3%) compared with higher viscosity grades oils. The outstanding low temperature performance ensures quick engine start up and supports fuel savings.
- **Superior Engine Durability**
Robust engine oil designed for downsized engines with higher horsepower and torque. With carefully selected components to ensure protection against premature combustion, known as LSPI which can cause catastrophic engine failure. Additional timing chain wear protection for a maximized engine durability.
- **Optimum Driving Performance**
With carefully selected components to ensure excellent lubrication and fast protection for powerful engine response in many driving conditions.
- **Hybrid Vehicles**
Provides optimum lubrication and wear protection on engines running less during low speed and stop-and-go driving.
- **Compatibility with ECS (Emission Control System)**
The low content of phosphorus and ash contributes to the long life of the three-component catalytic converters (TWC).



MEETS SPECIFICATIONS & REQUIREMENTS OF:

- API SP
- ILSAC GF-6A
- Resource Conserving
- FORD WSS-M2C947-B1 / 947-A
- CHRYSLER MS-6395
- FIAT 9.55535-CR1

Suitable for use in various OEMs such as TOYOTA, LEXUS, DAIHATSU, NISSAN, HONDA, MITSUBISHI, MAZDA, SUBARU, SUZUKI, ISUZU, FORD, DODGE, JEEP, RAM, CHRYSLER, HYUNDAI, KIA, ACURA, CHEVROLET, INFINITI, FIAT, Hybrid gasoline engines and other OEMs

requiring a SAE 0W-20, API SP, Resource Conserving and ILSAC GF-6A.

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	43.07	ASTM D445
100 °C	cSt	8.185	ASTM D445
Viscosity index	-	168	ASTM D2270
Cranking viscosity at -35°C	mPa-s	5804	ASTM D5293
Color	-	2.5	ASTM D1500
Flash point	°C	224	ASTM D92
Pour point	°C	-45	ASTM D6892
Density at 30 °C	kg/L	0.8406	ASTM D4052
Total Base Number	mg KOH/g	8.67	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 & 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.