

### PRODUCT DESCRIPTION

Hyper Ecodrive 20W-50 is an innovative fully synthetic engine oil formulated for use in next-generation gasoline engines – turbocharged gasoline direct injections (TGDI) and all other vehicles operating under severe urban conditions where “Stop-Start” modes are typical. Provides robust protection of highly loaded engine parts operating from mild to severe driving conditions. Guaranteed protection against Low Speed Pre-Ignition (LSPI) and timing chain wear.



Hyper Ecodrive 20W-50 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. Its powerful cleaning properties keep engine clean and reduces oil loss in engines with high mileage.

### APPLICATION

Recommended for all types of gasoline and gas fueled engines requiring a viscosity grade of SAE 20W-50 API SP 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, Liquefied Petroleum Gas (LPG), and Compressed Natural Gas (CNG).

Backward compatible to API SN PLUS, API SN/CF.

### WARRANTY

Hyper Ecodrive 20W-50 meets or exceeds the OEM's warranty requirements of gasoline vehicles where API SP oil is required. TOTACHI® guarantees full compliance on the written specifications indicated on product labels.

### CUSTOMER BENEFITS

- **Extends Engine Life**  
Outstanding wear protection and deposit control to ensure engine durability in severe driving conditions.
- **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.
- **Powerful Engine Performance**  
Excellent wear protection and active cleaning properties to ensure reliability and performance.
- **Prevents Leaks**  
High viscosity engine oil to help reduce leaks in older and high mileage engines.
- **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
- API SN PLUS
- API SN/CF

Suitable for use in various OEMs of Japanese, Korean, Russian, European, Chinese, Americans and other makers requiring a 20W-50 API SP engine oil. Maximizes the engine performance of older vehicles. Perfect for hot climates.

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	-	20W-50	SAE J300
Kinematic viscosity at:			
40 °C	cSt	126.00	ASTM D445
100 °C	cSt	18.36	ASTM D445
Viscosity index	-	163	ASTM D2270
Cranking viscosity at -25°C	mPa-s	5901	ASTM D5293
Color	-	2.0	ASTM D1500
Flash point	°C	246	ASTM D92
Pour point	°C	-39	ASTM D6892
Density at 30 °C	kg/L	0.8442	ASTM D4052
Total Base Number	mg KOH/g	7.30	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.