

### PRODUCT DESCRIPTION

Hyper Ecodrive 10W-40 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. It provides outstanding protection against sludge, deposits, piston varnish to keep your engine running like new. Exhibits high level of wear protection needed by sophisticated smaller and higher output engines. Guaranteed protection against Low Speed Pre-Ignition (LSPI) and timing chain wear.



Hyper Ecodrive 10W-40 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.

Delivers high performance lubrication and friction properties for an enhanced protection of critical engine parts, thus, extending the life of the engine.

### APPLICATION

Recommended for all types of gasoline fueled engines requiring a viscosity grade of SAE 10W-40 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.

Suitable for use in diesel engines requiring API CF oils.

Backward compatible to API SN PLUS, API SN.

### WARRANTY

Hyper Ecodrive 10W-40 meets or exceeds the OEM’s warranty requirements of gasoline vehicles where API SP is required. TOTACHI® guarantees full compliance on the written specifications indicated on product labels.

### CUSTOMER BENEFITS

- **Excellent Engine Cleanliness**  
Perfect selection of components to protect engines against stubborn sludge, harmful deposits and varnish to ensure optimum oil’s fluidity for superior engine protection.
- **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.
- **Optimized Drain Intervals**  
Outstanding high temperature stability for superior control of sludge, varnish, rust, corrosion and other harmful deposits to ensure maximum engine oil life.
- **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, European, American, Korean, Chinese, Russian cars requiring a 10W-40 engine oil. For use in various engines with mileage of equal or above 100,000 km. Perfect for all weather conditions. Good solution to prevent oil burns and smoke emissions.

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	-	10W-40	SAE J300
Kinematic viscosity at:			
40 °C	cSt	86.66	ASTM D445
100 °C	cSt	13.62	ASTM D445
Viscosity index	-	160	ASTM D2270
Cranking viscosity at -25°C	mPa-s	4234	ASTM D5293
Color	-	2.0	ASTM D1500
Flash point	°C	250	ASTM D92
Pour point	°C	-39	ASTM D6892
Density at 30 °C	kg/L	0.8427	ASTM D4052
Total Base Number	mg KOH/g	7.80	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.