

## **PRODUCT DESCRIPTION**

Ultima LSD Syn Gear 75W-90 is a premium extreme pressure fuel efficient fully synthetic gear oil designed to meet the demanding requirements of light and heavy duty manual transmissions equipped with Limited Slip Differential (LSD) system of 4-wheel drive vehicles (4WD) with the extended drain performance. Provides drive axle, differential wear protection under high temperature conditions demanded by light and heavy duty OEMs for towing and off-road applications. Delivers an excellent power transfer, without a noisy and dragging drive during gear shifts. Outstanding excellent extreme pressure (EP) properties to provide maximum protection of transmission system operating under extreme heavy loads in severe climate conditions. Formulated with premium components to ensure a reliable performance, compatible to seals and gaskets, good wear and corrosion protection, prevention of premature shear loss and supports fuel efficiency.

## **APPLICATION**

Recommended for light and heavy duty manual gearboxes, axles, differentials, final drives, drive axles operating under moderate to severe conditions, extremely hot or cold environments. Perfect for use in passenger cars, pick-up trucks, SUVs, CUVs, light commercial vehicles, 4WDs, on-road and off-road applications designed with limited slip differential (LSD) requiring a 75W-90 API GL-5 and MT-1 specifications.

## **WARRANTY**

Ultima LSD Syn Gear 75W-90 meets or exceeds the OEM's warranty requirements. For axles, differentials, constant mesh gearboxes, transfer cases, drive axles, final drives and other gear applications where API GL-5 and MT-1 is recommended. TOTACHI<sup>®</sup> guarantees full compliance on the written specifications indicated on product labels.

## **CUSTOMER BENEFITS**

- **Powerful Drive**  
Outstanding protection against wear and scoring during low speed-high torque, resulting to a smoother and efficient gear shifts.
- **Extended Gear System Life**  
Exceptional anti-oxidation properties at extreme operating conditions which helps in the extension of gear and bearing life by keeping the system clean for reliable performance.
- **Seal Protection**  
Formulated to protect against oil seal deterioration. Compatible with typical automotive seals and gaskets. Minimum leakage and reduced contamination.
- **Extended Drains**  
Designed for extended drain (450 000 km) of up to three times longer than standard mineral oils in heavy-duty final drives and differentials.
- **Fuel Efficiency**  
Up to 3% proven fuel economy improvement compared to conventional gear oils when Premium Syn Gear 75W-90 is used in transmissions.
- **Refill and Top off Compatibility**  
Compatible with conventional mineral oil based and other synthetic automotive gear lubricants.

## **MEETS SPECIFICATIONS & REQUIREMENTS OF:**

- API GL-5/MT-1
- SAE J2360
- MIL-PRF-2105E
- MACK GO-J
- LSD (Limited Slip Differential)

Suitable for use in various light and heavy duty transmission systems of Japanese, Korean, Chinese, American, European, Russian and other makers where 75W-90 API GL-5/MT-1 LSD gear oil is required.

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	-	75W-90	SAE J306
Kinematic viscosity at:			
40 °C	cSt	86.33	ASTM D445
100 °C	cSt	15.68	ASTM D445
Viscosity index	-	194	ASTM D2270
Color	-	L0.5	ASTM D1500
Flash point	°C	214	ASTM D92
Pour point	°C	-42	ASTM D6892
Density at 30 °C	kg/L	0.8573	ASTM D4052

### 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<sup>®</sup> distributor.