

PRODUCT DESCRIPTION

Scooter Gear Optima 80W-90 is a high-performance extreme pressure gear oil formulated for 2-stroke or 4-stroke scooters and mopeds transmissions where API GL-5 is recommended. It delivers optimum wear protection and longevity of the gearbox and drivetrain components operating in high revolutions and very high pressures. Thermally and chemically stable to provide superior lubrication to ensure smooth shifting, reduces noise and maintains riding efficiency in both urban and long-distance riding conditions.

Scooter Gear Optima 80W-90 prevents gear teeth wearing and chipping. It keeps the transmission system clean and extends the lifespan of the gearbox. Saves on repairs and parts replacement costs which guarantee maximum uptime and reduced maintenance and downtime. Safe for use in any type of seal and yellow metals in gear system.

APPLICATION

Recommended for most scooters and mopeds where an API GL-5 SAE 80W-90 or SAE 90 gear oil is specified. Provides outstanding transmission and gear protection over a wide range of operating conditions. In easy-to-use 125 ml tube for quick and spill free oil top-up.

WARRANTY

Scooter Gear Optima 80W-90 meets or exceeds the OEM's warranty requirements of vehicles and machineries where API GL-5 gear oil is required. TOTACHI® guarantees full compliance on the written specifications indicated on product labels.

TYPICAL TEST DATA

CHARACTERISTICS	UNITS	VALUES	STANDARDS
SAE Grade	-	80W-90	SAE J306
Kinematic viscosity at:			
40 °C	cSt	146.50	ASTM D445
100 °C	cSt	15.25	ASTM D445
Viscosity index	-	106	ASTM D2270
Color	-	L1.5	ASTM D1500
Flash point	°C	222	ASTM D92
Pour point	°C	-33	ASTM D6892
Density at 30 °C	kg/L	0.8765	ASTM D4052

CUSTOMER BENEFITS

- **Superior Gearbox Protection**
Protects gear against wear and tear, minimizing friction and reducing the risk of gearbox failure.
- **Longer Gear Life**
Extreme pressure properties to protect gears from scuffing and wear. Excellent rust, staining, and corrosion protection. Excellent thermal stability and resistance to high temperature oxidation.
- **Maintains Transmission Temperature**
Excellent heat dissipation, preventing overheating and ensuring consistent performance even under the demanding stop and start riding conditions.
- **Comfortable Ride**
Stable viscosity ensures a smooth shifting, reduced noise, reliable performance and maximized power under a variety of riding conditions.
- **Cost Savings**
Carefully blended to provide optimal efficiency, maximum uptime and reduced maintenance and downtime.

MEETS SPECIFICATIONS & REQUIREMENTS OF:

- API GL-5

Suitable for use in various OEMs requiring API GL-5 gear oils.

Before using this product, ensure it is consistent with OEM's recommendations for the equipment operating conditions and customer's maintenance practices.

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.