

GEAR OIL GL-3 90

Automotive gear oil (GL-3)

GEAR OIL GL-3 90 is a high-grade automotive gear oil made from highly refined base oil and top-performance extreme-pressure agents, metal anticorrosion agents, detergent-dispersants and other additives. It meets the API service classification grade GL-3.

● Special Features

1. Outstanding Lubrication Performance

GEAR OIL GL-3 90 is a gear oil that corresponds to GL-3 of API service classification and demonstrates excellent performance for lubrication of the transmission and the differentials of spiral gear used under normal operating conditions.

GEAR OIL GL-3 90 uses sulfur-based and phosphorus-based additives that are excellent as extreme pressure additives. In addition, additive formulations are applied to prevent metal corrosion, detergency and foaming. If hypoid gear is installed in the differential, please use GL-4 or GL-5 gear oil.

2. Excellent Oxidation Stability

Extreme pressure agent is added to gear oil to improve extreme pressure property. This extreme pressure agent reacts with metal to form extreme pressure coating. Extreme pressure agents are inherently chemically active substances, so reactions such as decomposition and polymerization occur at high temperatures. This may cause sludge. If the automotive gear continuously runs for a long time, the oil temperature rises above 100°C. Therefore, it is necessary to have excellent oxidation stability for long-term use under harsh conditions.

GEAR OIL GL-3 90 can be used with confidence for a long time because it is optimally formulated with base oil, extreme pressure agent and other additives which are excellent for oxidation stability.

● Applications

Transmission gears for automobiles, construction machinery, etc.

● Containers

200-liter drums, 20-liter cans.

● Typical Properties of

GEAR OIL GL-3 90

SAE Viscosity Grade			90
Color	(ASTM)		L1.5
Density	(15°C)	g/cm ³	0.892
Viscosity	(40°C)	mm ² /s	184.7
	(100°C)	mm ² /s	17.2
Viscosity index			99
Flash point	(COC)	°C	246
Pour point		°C	-22.5

Note: The typical properties may be changed without notice. (June 2011)



Handling Precautions

▼ Follow these precautions when handling this product.

Composition :	Base Oil(s), Additives
Precautionary pictograms:	Not applicable
Signal word:	Not applicable
Hazard Statement:	Not applicable
Precautionary Statements:	
Prevention	<ul style="list-style-type: none">• Do not handle until all safety precautions have been read and understood.• Wear protective gloves/protective clothing/eye protection/face protection.• Do not allow the eyes to become exposed to the product. Do not swallow the product.• Wash hands thoroughly after handling.• Do not eat, drink or smoke when using this product.
Response	<ul style="list-style-type: none">• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.• IF ON SKIN: Wash with plenty of soap and water.
Storage	<ul style="list-style-type: none">• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.• Containers that have been opened must be tightly sealed.
Disposal	<ul style="list-style-type: none">• Dispose of contents/container in accordance with local/regional/national/international regulations.• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.