



TRIAX SYNERGY GEAR MT 75W-90

Full-Synthetic Manual Transmission Fluid — API GL-4

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DESCRIPTION

TRIAX Synergy Gear MT 75W-90 is a top-tier, fully synthetic manual transmission fluid built on a combined ester and PAO base stock. The polar ester component bonds to metal, holding a durable film on gear teeth and synchronizer cones under load, while the PAO fraction contributes the high viscosity index, oxidative stability, and low-temperature fluidity mineral gear oils cannot reach. Formulated to API GL-4, it relies on non-reactive sulfur carriers rather than the active sulfur-phosphorus EP chemistry of GL-5 hypoid oils — the additive system responsible for attacking yellow metals. It is specifically formulated to protect gears without corroding brass or other soft metals.

Friction optimisation is what separates this fluid in service. Deliberately tuned to be less slippery than a conventional gear oil, it gives the synchronizer cone the grip it needs to pull the gear into speed, then carries load the instant engagement completes — producing short, precise, repeatable shifts with no shudder, sticking, or slipping. Extreme shear stability holds those characteristics through the drain interval, so the gearbox shifts the same late in service as it did on the fill, and the synthetic formulation supports extended drain intervals across a very wide range of OEM manual transmissions.

PERFORMANCE HIGHLIGHTS

- **Exceptionally smooth shifting** — optimised synchronizer engagement and frictional stability
- **No reactive sulfur** — low-sulfur GL-4 chemistry protects brass synchronizers and other soft-metal components from corrosive attack
- **Designed to resist shudder** — controlled dynamic friction guards against sticking and slipping under torque
- **High corrosion protection** — protects brass, copper, and aluminium alloys throughout the gearbox
- **High-horsepower capability** — excellent gear protection under high-speed operation and sustained mechanical and thermal loads
- **Excellent wear protection** — durable film strength on gear teeth across the operating range
- **Broad transmission compatibility** — covers a very wide range of manual transmissions from leading manufacturers
- **True full-synthetic formulation** — ester/PAO construction with no compromise on base stock quality

APPLICATIONS

For manual transmissions requiring a high-performance SAE 75W-90 API GL-4 fluid. In manual transmission service it can also be used in place of the following viscosity grades: SAE 75W-90, SAE 90 and 80W-90, and SAE 40, 10W-40, and 15W-40.

SPECIFICATIONS

For use in applications requiring the following specifications:

- **VW / AUDI** G 052 911, G 005 000, G 005 100, G50, G51, 501.5, G 045 190 A2, G 052 145
- **BMW** MTF-LT-4, 81 22 9 407 305, 83 22 2 339 223
- **FORD** F32Z-19C547-MA, M2C175-A, M2C200-B, WSS-M2C203-A1, XT-4-QGL
- **GM / GM-DAEWOO** 12345371, 12345724, 12345871, 12346074, 12346190, 89021806, 89021807
- **OPEL / VAUXHALL / HOLDEN**
- **SKODA**
- **MERCEDES-BENZ** 235.11, A 001989510310
- **TOYOTA** 08885-80917, 08885-81023, 08885-81026
- **MAZDA** (MES) 115A, 0000-77-114-QT, L.L. Manual Gear Oil
- **HYUNDAI / KIA** 08950-00010-A, 04300-5L1A0
- **NISSAN** Mission Oil MP-G HQ
- **JEEP** 0489722AA
- **NEW VENTURE GEAR** NV 4500
- **MITSUBISHI**
- **LOTUS**

CHEMICAL PROPERTIES

Property	Gear MT 75W-90	Test Method
SAE Gear Oil Viscosity Grade	75W-90	SAE J306
Specific Gravity @ 60 °F	0.87	ASTM D4052
Kinematic Viscosity @ 40 °C, cSt	82	ASTM D445
Kinematic Viscosity @ 100 °C, cSt	15.5	ASTM D445
Viscosity Index	202	ASTM D2270
Flash Point, °C	226	ASTM D92
Pour Point, °C (°F)	-46 (-51)	ASTM D97
Copper Strip Corrosion, 3 h @ 100 °C	1A	ASTM D130

Small deviations from these results are expected during the manufacturing process and do not affect product performance, and product formulations are subject to change without notice.