



TRIAX SYNERGY GEAR MT 75W-80

Full-Synthetic Manual Transmission Fluid — API GL-4

Rev: Feb 12, 2026

DESCRIPTION

TRIAX Synergy Gear MT 75W-80 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 and magnesium-based friction modifiers rather than the active sulfur-phosphorus EP chemistry of GL-5 hypoid oils — the additive system responsible for corroding brass and bronze. It is specifically formulated to protect gears without corroding brass or other soft metals.

What sets Synergy Gear MT apart is shift quality. Its friction characteristics are tuned to synchronizer dynamics: the fluid must shear away quickly enough to let the cone engage, then carry load the instant it does. That balance delivers short, precise, repeatable engagement — no notchiness on a cold morning, no baulking under torque, no drift in feel as the fluid ages. 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 — with extended drain capability that reduces service frequency over the life of the transmission. With specification coverage spanning fifteen North American, European, and Asian OEMs, a single fluid consolidates the overwhelming majority of 75W-80 GL-4 manual transmission and transaxle applications.

PERFORMANCE HIGHLIGHTS

- **No reactive sulfur** — non-reactive sulfur carriers and magnesium-based friction modifiers do not attack yellow metals, preventing the corrosive sulfur damage to brass and bronze synchronizers caused by active-sulfur GL-5 gear oils
- **Exceptional torque transfer** — optimised dynamic friction resists slippage and supports smooth shifting
- **Synchronizer frictional stability** — consistent engagement feel throughout the drain interval
- **Extreme shear stability** — holds viscosity under sustained gear-mesh shear
- **Superb foam resistance** — maintains a continuous lubricating film under high-speed churning
- **Corrosion and scuffing protection** — guards gear surfaces against corrosion, scuffing, and slipping
- **Excellent hot and cold performance** — wide operating temperature range with reliable cold-shift quality
- **Broad seal compatibility** — compatible with natural and synthetic elastomers
- **Quiet, smooth operation** — excellent lubricating characteristics for reduced gear noise
- **Very high viscosity stability** — helps assure adequate lubrication across the temperature range

APPLICATIONS

For manual transmissions and transaxles requiring a high-performance SAE 75W-80 API GL-4 fluid. Also compatible with many gear and differential applications specifying a GL-4 lubricant.

SPECIFICATIONS

For use in applications requiring the following specifications:

- **CHRYSLER** MS-9224, MS-9417, MS-9440, 4874464, 05179014AA, 4761523
- **FORD** XT-M5-QTS, E5RY-19C547-A, ESD-M2C-186-A
- **GM** Synchromesh Transmissions, Auto-Trak II, 10953626, 12345577, 12377916, 12378508, 12799117, 10-4006, 10-4014, 10-4017, 1042931, 1052931, 9985648, 9986117, 21018899, 88900333, 88900399, 88900402, 89021808, BOT 0063, MTF 0063
- **VW / AUDI** G 052 171, G 052 176, G 052 532, G 055 532
- **DACIA / RENAULT** PT 77 11
- **HONDA / ACURA** 08798-9013A, 08798-9016A, 08798-9016, 4928271, Genuine MTF
- **JAGUAR / LAND ROVER** LR006247, MTF 0063
- **MAZDA** 0000-77-5W80-QT
- **MERCEDES-BENZ** 235.10, 900 26 03-15, A 001 989 85 03
- **BMW / MINI** 83 22 0 403 247, 83 22 0 140 516, 83 22 2 344 589, MTF-2, MTF 94
- **MITSUBISHI** MTF, MTX, Multi Gear Oil ECO, MZ313501
- **NISSAN** ETL 8997B, KE 916-99033, MTF TL/JR
- **PEUGEOT / CITROËN** PSA B71 2330 75W-80
- **SAAB** MTF 0063
- **VOLVO** 1161745, 1161645, 97308, 1151324-7, 1161423-7, M2C 200-C3, MTF 97309-10

CHEMICAL PROPERTIES

Property	Gear MT 75W-80	Test Method
SAE Gear Oil Viscosity Grade	75W-80	SAE J306
Specific Gravity @ 60 °F	0.87	ASTM D4052
Kinematic Viscosity @ 40 °C, cSt	52.2	ASTM D445
Kinematic Viscosity @ 100 °C, cSt	9.5	ASTM D445
Viscosity Index	168	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.