

## Manual Transmission Fluid

# AMSOIL 5W-30 MANUAL SYNCHROMESH TRANSMISSION FLUID

Product Code: MTFQT-EA

*Experience smoother shifts, reduced wear, and reliable cold-weather performance with this full-synthetic manual transmission fluid.*



## Product Description

AMSOIL 5W-30 Manual Synchronesh Transmission Fluid is a full-synthetic lubricant engineered to deliver smoother shifts, reduced wear, and extended service life in synchronesh manual transmissions and transaxles across a wide range of GM, Chrysler, Honda, and other vehicles.

Manual transmissions that call for non-extreme-pressure fluids are often filled with conventional OEM fluids that thin out under mechanical shear and lose their protective properties well before the next drain interval. Cold-weather shifting suffers as the fluid thickens, and heat buildup during aggressive driving or stop-and-go traffic accelerates oxidation and varnish formation. The result is notchy shifts, increased gear noise, and premature wear on synchronizers and bearings.

### SMOOTH SYNCHROMESH SHIFT QUALITY

Brass synchronizer rings are sensitive to fluid chemistry. The wrong additive package can cause grinding, balking, or accelerated synchro wear. AMSOIL Manual Synchronesh Transmission Fluid is specifically formulated to protect brass components and condition seals while maintaining the precise friction characteristics synchronesh designs require. It earns a 1A rating on the ASTM D130 Copper Corrosion test at 121 degC, confirming its compatibility with copper and brass alloy components inside transmissions like the Tremec T56, TKO500, TKO600, TR 3450, and TR 3550, as well as the New Venture NV 3550 found in Jeep Wranglers and NV 5600 in Ram 2500/3500 trucks.

### RESISTS MECHANICAL SHEAR FOR STABLE PROTECTION

Conventional manual transmission fluids lose viscosity over time as gear teeth physically tear apart the oil's molecular structure. This thinning reduces film strength right when the fluid is needed most. AMSOIL Synchronesh Transmission Fluid resists the thinning effects of mechanical shear, maintaining stable viscosity, superior film strength, and consistent anti-wear performance across the full drain interval. The Four-Ball Wear Test (ASTM D4172) produces a wear scar of just 0.40 mm, demonstrating strong anti-wear capability under load.

### COLD-WEATHER SHIFTING DOWN TO -40 degF

Thick, sluggish fluid on a cold morning makes first and second gear feel like you are stirring concrete. AMSOIL Synchronesh Transmission Fluid posts a Brookfield viscosity of 32,075 cP at -40 degC (ASTM D2983) and a pour point of -48 degC (-54 degF). That means faster fluid flow to gears and synchronizers at startup, reducing the stiff, notchy shifting that plagues conventional fluids in cold climates. If you drive a Honda Civic Si, Civic Type R, or any manual-equipped vehicle through northern winters, the difference is immediately noticeable.

### RESISTS HEAT, OXIDATION, AND VARNISH

With a flash point of 218 degC (424 degF) and a viscosity index of 196, this fluid maintains its protective properties across a wide temperature range, from subzero cold starts to sustained high-temperature operation at 300 degF (149 degC). It resists oxidation, acid buildup, and varnish deposits that degrade shift quality and shorten component life. Zero foam tendency across all three sequences of ASTM D892 testing means consistent hydraulic film pressure on gear surfaces with no aeration.

### VERSATILE REPLACEMENT FOR MULTIPLE OEM FLUIDS

This single product replaces Honda Genuine MTF fluid for manual transaxles, Land Rover/MG/Mini Cooper MTF-94, Shell or Texaco MTX fluid, and multiple GM and Chrysler specifications. For service centers or enthusiasts maintaining several vehicles, it reduces the number of specialized fluids you need to stock.

### SPECIFICATIONS AND COMPATIBILITY

AMSOIL 5W-30 Manual Synchronmesh Transmission Fluid meets or exceeds the following specifications:

GM 9985648GM 9986105GM 9985535Chrysler MS-9224Chrysler MS-9417Honda Genuine MTF fluid for transaxlesLand Rover, MG, and Mini Cooper MTF-94Texaco MTX fluid

Compatible transmissions include the New Venture NV T350, NV 1500, NV 2550, NV 3500, NV 3550, NV 5600, and Tremec T4, T5, T18, T56, T176, TKO500, TKO600, TR 3450, and TR 3550. Not for use in engines, wet-clutch applications, hypoid rear axles, or limited-slip differentials.

### SERVICE LIFE

Recommended for 50,000-mile service intervals or longer, up to 150,000 miles as indicated in the owner's manual.

## Technical Specifications

Property	Value	Test Method
Kinematic Viscosity @ 100 degC, cSt	10.1	ASTM D445
Kinematic Viscosity @ 40 degC, cSt	49.4	ASTM D445
Viscosity Index	196	ASTM D2270
Flash Point, degC ( degF)	218 (424)	ASTM D92
Pour Point, degC ( degF)	-48 (-54)	ASTM D97
Four-Ball Wear Test Scar, mm (75 degC, 1200 rpm, 40kg, 1hr.)	0.40	ASTM D4172
Brookfield Viscosity @ -40 degC, cP	32,075	ASTM D2983
Foam Stability (20/50/20)	0/0, 0/0, 0/0	ASTM D892
Copper Corrosion 3hr @ 121 degC	1A	ASTM D130

## Frequently Asked Questions

### Q1: What vehicles and transmissions use AMSOIL 5W-30 Manual Synchronmesh Transmission Fluid?

AMSOIL 5W-30 Manual Synchronmesh Transmission Fluid (MTFQT) is designed for manual transmissions and transaxles in GM, Chrysler, Honda, Land Rover, MG, and Mini Cooper vehicles. Specific applications include New Venture NV T350, NV 1500, NV 2550, NV 3500, NV 3550, NV 5600, and Tremec T4, T5, T18, T56, T176, TKO500, TKO600, TR 3450, and TR 3550 transmissions. It replaces MTF-94 fluid for Land Rover, MG, and Mini Cooper, replaces Honda Genuine MTF fluid for manual transaxles, and replaces Shell or Texaco MTX fluid.

### Q2: Does AMSOIL 5W-30 Synchronmesh Transmission Fluid improve cold weather shifting in manual transmissions?

Yes. AMSOIL 5W-30 Manual Synchronmesh Transmission Fluid is formulated to improve cold weather shifting performance, providing excellent protection and operation in temperatures as low as -40 degF (-40 degC). It resists the thinning effects of mechanical shear for stable viscosity and superior film strength, which helps maintain smooth synchronmesh shift quality even in extreme cold conditions.

**Q3: What specifications does AMSOIL 5W-30 Manual Synchronesh Transmission Fluid meet for non-extreme-pressure transmissions?**

AMSOIL 5W-30 Manual Synchronesh Transmission Fluid is a non-extreme-pressure formulation that surpasses the most demanding requirements of manual transmissions and transaxles where non-EP fluids are specified. It provides effective protection across a wide operating temperature range from -40 degF (-40 degC) to 300 degF (149 degC). It is specifically designed as a replacement for Honda Genuine MTF, MTF-94, and Shell or Texaco MTX fluids.

**Q4: How does AMSOIL 5W-30 Synchronesh Transmission Fluid compare to Honda Genuine MTF or OEM transmission fluid?**

AMSOIL 5W-30 Manual Synchronesh Transmission Fluid is engineered as a direct replacement for Honda Genuine MTF fluid for manual transaxles, offering a cost-effective alternative to vehicle manufacturer-branded products. It protects brass synchronesh components, conditions seals, and resists oxidation, acid buildup, and varnish deposits. Verified owners of Honda Civic Type R and Civic Si models report noticeably smoother shifting and improved synchro performance after switching from OEM fluid to AMSOIL.

**Q5: How does AMSOIL 5W-30 Manual Synchronesh Transmission Fluid protect gears and extend transmission life?**

AMSOIL 5W-30 Manual Synchronesh Transmission Fluid reduces friction, heat, and wear while preventing the thinning effects of mechanical shear, maintaining stable viscosity and superior film strength throughout its service life. It resists oxidation, acid buildup, and varnish deposits that can degrade transmission performance over time. It also protects against corrosion and conditions seals, helping to preserve synchronesh shift quality and extend overall transmission longevity.

**Q6: Is AMSOIL 5W-30 Synchronesh Transmission Fluid safe for brass synchronizers and can it be used in wet-clutch or limited-slip applications?**

AMSOIL 5W-30 Manual Synchronesh Transmission Fluid is specifically formulated to protect brass components and deliver smooth synchronesh shift quality, making it safe for transmissions with brass synchronizers. However, it is not designed for use in engines, wet-clutch applications, hypoid rear axles, or limited-slip differentials. It should only be used in manual transmissions and transaxles where a non-extreme-pressure fluid is specified.

## Available Product Codes

Product Code	Package Size	Unit of Measure
MTFQT-EA	Quart Bottle	Each
MTFQT-CA	Quart Bottle	Case of 12
MTF05-EA	5 Gallon Pail	Each

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