



*The First in Synthetics®*

## Synthetic Fuel Efficient Automatic Transmission Fluid

### Low Viscosity Synthetic Automatic Transmission Fluid

#### PRODUCT DESCRIPTION

AMSOIL Synthetic Fuel Efficient Automatic Transmission Fluid (ATL) is engineered to exceed the requirements of GM, Ford and Toyota where low-viscosity oil is required. The highly-specialized properties of this light-bodied fluid provide outstanding performance without compromising protection, even in severe operating conditions.

Automatic transmissions have become increasingly complex as vehicle manufacturers strive to improve efficiency while satisfying consumer demands. Smaller, smoother-shifting transmissions with longer fluid life capabilities and heavier load capacities are now standard. Traditional ATFs, however, are unable to meet these extreme requirements, and new fluids have emerged with each new advancement in transmission engineering. AMSOIL, with its original introduction of a synthetic ATF in 1980, remains the leader in transmission fluid quality. AMSOIL Synthetic Fuel Efficient Automatic Transmission Fluid is formulated with the highest-quality components to exceed the most stringent industry standards. The quality and performance of AMSOIL Synthetic ATF is guaranteed.

#### Fully Fortified

- |                                     |                                 |
|-------------------------------------|---------------------------------|
| • Anti-wear/extreme-pressure agents | Extend gear life                |
| • Durable friction modifiers        | Anti-shudder                    |
| • Antioxidants                      | Extend fluid life               |
| • Seal conditioners                 | Reduce leaks                    |
| • Detergents and dispersants        | Keep clean and control deposits |
| • Corrosion inhibitors              | Control rust                    |
| • Anti-foam agents                  | Improve hydraulic function      |



#### Exceptional Hot- and Cold-Temperature Performance

**Thermal Stability** – Hot temperatures are no excuse for poor reliability. Naturally heat-resistant and heavily fortified with antioxidants, AMSOIL Fuel Efficient Automatic Transmission Fluid exceeds the most demanding oxidation requirements. It delivers outstanding protection against sludge and varnish deposits that clog narrow oil passages and contribute to clutch glazing. AMSOIL Fuel Efficient ATF protects hot-running transmissions.

**Cold-Temperature Fluidity** – Cold, thick automatic transmission fluid lengthens shift times and reduces energy efficiency (fuel economy). AMSOIL Synthetic Fuel Efficient ATF is wax-free and delivers extraordinary cold-flow performance (<-60°F pour point). It helps improve shifting response and energy efficiency while reducing warm-up times.

#### Outstanding Wear Protection

Varying speeds and loads causes torque multiplication and extreme stress on gears and bearings. To prevent wear damage resulting from insufficient fluid film, AMSOIL Synthetic Fuel Efficient ATF is formulated with high film strength (shear stability) and a select anti-wear/extreme-pressure additive that develops a boundary layer of protection between metal surfaces. Even though AMSOIL Synthetic Fuel Efficient Automatic Transmission Fluid is a low-viscosity, fuel-efficient fluid, it has demonstrated its ability to protect as well as or better than higher-viscosity fluids in the most severe industry tests.



## TYPICAL TECHNICAL PROPERTIES

### AMSOIL Synthetic Fuel Efficient Automatic Transmission Fluid (ATL)

Viscosity 100°C, cSt (ASTM D-445)	6.0
Viscosity 40°C, cSt (ASTM D-445)	29.8
Viscosity Index (ASTM D-2270)	153
Flash Point, °C (°F) (ASTM D-92)	226 (439)
Fire Point, °C (°F) (ASTM D-92)	244 (471)
Pour Point, °C (°F) (ASTM D-97)	-53 (-63)
Four-Ball Wear @ 75°C, 1200 rpm, 40 kg, 1 hr, Scar, mm (ASTM D-4172)	0.40
Brookfield Viscosity, cP ASTM (D-2983)	9050
Copper Corrosion, 150°C, 3 hr (ASTM D-130)	1b

### Friction Durability

Modern transmissions are smaller in design, yet are called upon to deliver smoother shifts and longer fluid-life capabilities in higher-horsepower and higher-torque conditions. AMSOIL placed great emphasis on developing a fluid to effectively address the complex demands related to friction. AMSOIL Synthetic Fuel Efficient Automatic Transmission Fluid delivers outstanding clutch-holding capacity (static friction), torque transfer ability (dynamic friction) and anti-shudder properties (slipping torque-converter clutches).

### Applications

AMSOIL Synthetic Fuel Efficient Automatic Transmission Fluid is recommended for automatic transmissions and other applications requiring **DEXRON® VI**, **MERCON® LV, SP** or **Toyota WS**.

AMSOIL Synthetic Fuel Efficient Automatic Transmission Fluid is backward-compatible and replaces DEXRON® III fluids in older GM automatic transmissions. (DEXRON® VI specification supersedes the obsolete DEXRON® III in GM vehicles.)

\*Not for use with CVT or Ford Type F applications.

### Extended Fluid Service Life

Most drivers are unaware that transmissions commonly operate under severe service and require shorter fluid drain intervals. AMSOIL Synthetic Fuel Efficient Automatic Transmission Fluid is a long-life fluid capable of extended service intervals. It provides an extra margin of protection, especially when fluid change intervals are missed or during heavy use; even during abuse. Drivers can count on AMSOIL Fuel Efficient ATF to provide protection beyond conventional fluids.

### Service Life

Specification	Recommendation for cars and light-duty trucks	
	Normal Service*	Severe Service*
DEXRON® VI	100,000 miles (160,000 km)	50,000 miles (80,000 km)
MERCON® LV,SP	Follow vehicle manufacturer's recommendations	
Toyota WS	100,000 miles (160,000 km)	60,000 miles (96,000 km)

\*Defined by OEM.

### HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Material Safety Data Sheet (MSDS). An MSDS is available via the Internet at [www.amsoil.com](http://www.amsoil.com) or upon request at 715-392-7101. **Keep Out of Reach of Children.** Don't pollute. Return used oil to collection centers.

For AMSOIL warranty information visit [www.amsoil.com](http://www.amsoil.com).

AMSOIL products and Dealership information are available from your local AMSOIL Dealer.

