

Pennzoil[®] ATF+4[®] Automatic Transmission Lubricant

TECHNICAL DATA SHEET



ATF+4[®] is specially formulated to meet the requirements for use as a hydraulic fluid for automatic transmissions used in passenger cars, trucks and sport utility vehicles. It is designed as a robust automatic transmission fluid with improved oxidation stability, excellent low temperature viscosity, friction durability/retention, shear stability and anti-wear performance characteristics vs. ATF+4[®]

Performance, Features & Benefits

ATF+4[®] provides:

- Superior low temperature performance vs. ATF+3[®] due to the Group II+/Group III base stocks used
- Excellent shear stability and viscosity retention vs. ATF+3[®]
- Significant long-term improvement in Oxidation stability vs. ATF+3[®]
- Measurably improved anti-wear properties over DaimlerChrysler's previous generation ATF
- Friction properties closely matching those of DaimlerChrysler's previous generation ATF

Main Applications

ATF+4[®] is intended as a hydraulic fluid for all automatic transmissions manufactured by DaimlerChrysler Corporation where an ATF+3[®], ATF+2[®], or ATF+[®] fluid is specified. ATF+4[®] fully meets Chrysler warranty requirements.

- 1988 & Newer - All Chrysler, Plymouth and domestic Dodge models

Typical Physical Characteristics

- All Jeep models without AW-4 automatic transmissions
- 1969 & Newer - All import models from Dodge, Eagle and Plymouth
- 1993 & Newer - All domestic Eagle models

ATF+4[®] is also suitable for use in 1987-95 Hyundai transaxles and in some Mitsubishi automatic transmissions.

Specifications, Approvals & Recommendations

- Always check owner's manual for exact Application.
- This product should not be used in transmissions requiring DEXRON[®] - III(H), MERCON[®], MERCON[®] V, or MERCON[®] SP transmission fluids.
- ATF+4[®] is approved against Chrysler specification MS-9602.

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Help Desk.

To find the right Pennzoil[®] product for your vehicles and equipment, please consult www.pennzoil.com to look up the right motor oil recommendation using our oil selector.

Properties		Method	Pzl [®] ATF+4 [®]	
Appearance			Red, dyed	
gravity	^o API	ASTM D1298	34.7	
Flash Point (COC)	^o F	ASTM D92	410	
Pour Point	^o C	ASTM D97	-48	
CCS Viscosity	@-28.9 ^o C	cP	ASTM D2983	2 250

Pennzoil® ATF+4® Automatic Transmission Lubricant

Properties			Method	Pzl® ATF+4®
MRV Viscosity	@-40°C	cP	ASTM D2983	9 300
Kinematic Viscosity	@40°C	cSt	ASTM D445	35.13
Kinematic Viscosity	@100°C	cSt	ASTM D445	7.71
Kinematic Viscosity	@100°F	SUS	(calc)	177.5
Kinematic Viscosity	@210°F	SUS	(calc)	52.0
Viscosity Index			ASTM D2270	198

These characteristics are typical of current production. While future production will conform to Pennzoil's® specification, variations in these characteristics may occur.

ATF+, ATF+2, ATF+3 and ATF+4® are trademarks of DaimlerChrysler Corporation

Health, Safety & Environment

Health and Safety

Pennzoil® ATF+4® is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet (MSDS), which can be obtained from www.epc.Shell.com

Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

Additional Information

Advice

Advice on applications not covered here may be obtained from your Shell Lubricants distributor representative or Shell Technical Help Desk.