

PennGrade® Multi-Purpose Automatic Transmission Fluid



Product Description

PennGrade® Multi-Purpose ATF is a fully synthetic high viscosity automatic transmission fluid that supports the performance requirements in a vast majority of today's automatic transmissions, including Allison, BMW, Honda, Ford, Mercedes Benz, Mitsubishi, Nissan, Toyota, Volkswagen, Voith, Volvo, ZF, and many others. **PennGrade® Multi-Purpose ATF** is suitable for severe service applications (up to 50,000 miles) and for extended drain intervals in normal service applications (up to 100,000 miles). It offers excellent corrosion resistance to all types of metals used in transmissions and hydraulic systems, plus provides superior friction retention and thermal and oxidation stability. **PennGrade® Multi-Purpose ATF** can be used in a broad variety of multi-vehicle applications found in on- and off- highway service as well as marine and industrial applications.

Product Features and Benefits

Friction modifiers control lock-up rates of clutch packs for proper transmission shifting characteristics and efficient power transfer.

Controls seal deterioration to limit fluid leakage.

Specifically formulated for extra wear control and rust protection for longer equipment life.

Special detergent/dispersant additives limit formation of sludge and varnish deposits which interfere with proper transmission operation.

Multi-grade for optimum performance during cold starts and high temperature operations, including start/stop severe service.

Formulated to be compatible with the metallurgy used in most modern transmissions and high-pressure hydraulic systems.

Provides efficient heat removal from clutch surfaces to extend clutch life and reduce clutch shudder in modulated torque converters.

Full synthetic for longer fluid life and faster oil flow in low temperature operation.

Typical Applications

Supports the performance requirements of:

Aisin Warner AW-1	Ford WSS-M2C922	Jatco Texaco 402	Mitsubishi Dia Queen	Toyota PSF Type EH
Aisin Warner JWS3309	Ford XL-12	Jatco 3100 PL085	ATF J2	Voith H55.6335
Allison C-4	Ford WSS-M2C195-A	MAN 339-V-1	Mitsubishi PS Fluid	Volvo 1161621 & 1161521
Audi/VW TL 052 162	GM Auto Trak II	MAN 339-Z-1	Nissan Matic C	Volvo 1161640 & 1161540
Audi/VW TL 052 990	GM IID, GM IIIF, GM IIIG	MAN 339F	Nissan Matic D	Volvo 31256774
Audi/VW TL 055 025-A	GM IIHH, GM III	Mazda M-III	Nissan Matic J	Volvo P/N 97340
Audi/VW Porsche	GM T-IV Transmission Fluid	Mazda M-V	Nissan Matic K	Volvo AT 101 (P/N 97341)
000.043.204.63	GM ATF Saturn T-IV	Mercedes Benz 236.1	Nissan PSF-II	ZF LifeGuard Fluid 5
000.043.205.28	GM AW-1 Transmission Fluid	Mercedes Benz 236.10	North American OEM	ZF TE-ML 03D
BMW 83 22 0 026 922	GM TASA	Mercedes Benz 236.11	High Viscosity ATF	ZF TE-ML 04D
BMW 83 22 9 407 807	GM Power Steering Fluid	Mercedes Benz 236.2	PSA B71 2340	ZF TE-ML 05L
BMW MINI 83 22 7 542 290	GM 9985010	Mercedes Benz 236.3	Renault DP-0	ZF TE-ML 09
Daihatsu Ammix D-III ATF	GM 9985835	Mercedes Benz 236.5	Saab 93165147	ZF TE-ML 11 (3 and 4 speeds)
FCA ATF+4	Honda ATF-Z1	Mercedes Benz 236.6	Saab Power Steering Fluid 2634	ZF TE-ML 14A
FCA MOPAR AS68 / 69RC	Hyundai/KIA Red-1	Mercedes Benz 236.7	Subaru ATF	ZF TE-ML 16L
FCA Chrysler MS-1872	Hyundai/KIA JWS 3314	Mercedes Benz 236.81	Subaru ATF HP	ZF TE-ML 17C
FCA Chrysler MS-5931	Hyundai/KIA JWS 3317	Mercedes Benz 236.9	Subaru Power Steering Fluid	ZF TE-ML 21L
FCA Chrysler MS-108388	Hyundai/KIA SP-II	Mercedes Benz 236.91	Suzuki 3314	
Ford WSS-M2C924-A	Hyundai/KIA SP-III	Mercedes Benz GL-450	Suzuki 3317	
Ford Merc V	Hyundai/KIA PSF-3	Mitsubishi SP-II	Toyota T	
Ford FNR5	Jaguar WSS-M2C922-A1	Mitsubishi SP-III	Toyota T-1, T-II & T-III	
Ford WSS-M2C138	JASO 1-A	Mitsubishi Diamond SP-III	Toyota T-IV	

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NOTE: ATF recommendations may vary between models from manufacturer. Please consult the owner's manual for the correct fluid recommendations.

Typical Properties

SAE Viscosity Grade		
Viscosity @ 100°C, cSt	ASTM D445	7.2
@ 40°C, cSt	ASTM D445	34.0
Viscosity Index	ASTM D2270	180
Pour Point, °F (°C)	ASTM D97	-47 (-44)
Flash Point, °F (°C)	ASTM D92	400 (204)
API Gravity	ASTM D4052	34.6

D-A Part Number:
Bag-in-a-box – 6 Gal

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