



CITGO® QUATRASYN® Synthetic Transmission Fluid

OVERVIEW



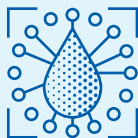
- Fully synthetic, multipurpose heavy duty transmission fluid engineered for severe-duty service and designed for use in a variety of automatic transmission applications.
- A long history of proven performance: field tested in buses and proven for use in refuse vehicles, construction material trucks, trailers, and vehicles operating in stop-and-go conditions.

FEATURES & BENEFITS

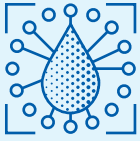


- Unique synthetic formula with high-performance additive technology can extend fluid service life and life of key transmission components, versus conventional fluids.
- Improves maintenance efficiency by extending transmission life, resulting in reduced downtime and lower repair costs.
- Extended drain and filter change intervals result in reduced oil disposal cost; seal conditioners reduce tendency for leakage after extended service.
- Excellent deposit control reduces the tendency of fluid breakdown that leads to clutch plate glazing and results in loss of clutch plate friction control.
- Outstanding performance across a wide temperature range provides year-round capability.
- Excellent thermal and oxidation stability reduce sludge and deposit formation.
- Excellent shear stability and viscosity retention.
- Optimized traction coefficients can increase fuel economy.

APPLICATIONS



- Recommended for use in automatic transmission applications where TES-295 fluid is specified.
- Refer to equipment owner's manual for proper lubricant recommendation and warranty requirements. QuatraSyn is not an Allison-approved fluid.

APPLICATIONS**CITGO QuatraSyn Synthetic Transmission Fluid has OEM Approval for the following:**

- MAN - 339 V1
- MAN - 339 Z2
- Mercedes - MB 236.9
- VOITH – H55.6335.XX (G607)
- ZF TE-ML 04D; 14A; 14B; 16L;17C and 20B
- VOLVO – 97341
- JASO – Approved 1A, M315-2004
- VOITH North America Service Bulletins #013 and 018

CITGO QuatraSyn Synthetic Transmission Fluid is suitable for use in where the following products are recommended:

- Allison TES- 295, TES-468 (Not suitable for use in California.)
- Allison C-4
- Mercedes - MB 236.5; 6; 7; 10; 11; ATF 3403 M-115
- ZF TE-ML – 03D
- BMW – LT71141; 2634; ETL-7045E; -8027B
- Chrysler – ATF +3
- Ford – M; MV
- GM – III(H)
- HMC/KIA – SP-II; SP-III
- Honda – ATF Z1
- Jaguar – Idemitsu K17
- Land Rover – Texaco N402
- Mazda – ATF M-III; ATF M-V
- Nissan – Matik J; Matik K
- Subaru – ATF; ATF HP
- Toyota – T-III; T-IV; JWS 3309
- VW/AUDI – G 052 025 (09M); G 052 990 (09A)

CITGO QuatraSyn Synthetic Transmission Fluid is intended for use in the following universal powershift and automatic transmission applications:

- School Buses and Vans
- Refuse Fleets
- Commercial Trucks and Vehicles
- Motor Homes
- Emergency Vehicles
- On/Off-Highway Vehicles
- Inter/Intracity Buses
- Light Duty Pickup Trucks and Passenger Cars
- Recommended for use in automatic transmission applications where C-4 fluid is specified
- ZF Ecomat transmissions
- Voith DIWA Transmissions

PROPERTIES



Typical Properties for CITGO QuatraSyn Synthetic Transmission Fluid:

Material Code	632493001
Gravity, ASTM D237, °API	35.3
Specific Gravity, D4052	0.848
Density, lb/gal	7.07
Color	Red
Flash Point ASTM D92, °F (°C)	400 (204)
Viscosity ASTM D445	
cSt at 100°C	7.53
cSt at 40°C	35.7
Viscosity Index	185
Brookfield Viscosity ASTM D2983	
cP at -40°C	12,100
cP at -20°C	1,158
Pour Point ASTM D97, °F (°C)	-62 (-52)
Total Acid Number, ASTM D664, mg KOH/gm	1.23
4-Ball Wear, ASTM D4172	
40kg, 1200 rpm, 1 hour,	0.48
Cold Cranking Simulator, ASTM D5293, cP at -30°C	2680

CITGO and QuatraSyn are registered trademarks of CITGO Petroleum Corporation. All other registered trademarks or trademarks are the property of their respective owners. Values shown are typical values only and do not constitute a specification. The information contained herein is subject to change without notice.