



Delo Syn ATF 668

Premium performance synthetic long-drain transmission fluid

Product description

Delo[®] Syn ATF 668 is a premium performance fully synthetic long-drain transmission fluid specifically engineered for Allison heavy-duty automatic truck and bus transmissions. It is an Allison Approved TES 668[™] automatic transmission fluid and is backwards compatible with applications requiring TES 295[®] and TES 389[™] fluids. It is also recommended for H 40/50 EP[™] series parallel hybrid transmissions where TES 468[™] fluids are specified.

Delo Syn ATF 668 is manufactured from synthetic base oils and additives that is designed to offer oxidation and thermal stability, friction control, load-carrying ability, corrosion and wear protection.

Delo Syn ATF 668 helps prevent the accumulation of deposits and the formation of sludge, varnish, and foam. It has robust low-temperature flow properties and enhanced protection against viscosity breakdown.

Customer benefits

- Designed for extended anti-shudder durability more than 10 times longer than TES 295 fluids, offering smooth performance even as the fluid ages.
- Offers extended clutch friction durability for consistent, smooth gear changes across varying temperatures and loads.
- Long fluid life formulation offers excellent antioxidation performance and shear stability.
- Formulated for long transmission service life promoting gear, bearing and clutch protection.
- Wide temperature viscosity performance offers fast circulation and efficient power transfer under demanding conditions.
- Helps provide low-temperature component protection in cold weather start-ups.

Product highlights

- **Consistent smooth operation for over 10 times longer than TES 295 fluids**
- **Helps extend clutch friction durability**
- **Promotes anti-oxidation and shear stability**
- **Formulated for long transmission service life**
- **Offers fast circulation and efficient power transfer**
- **Helps provide cold start-up protection**

Selected specification standards include:

Allison TES 668	Allison TES 295
Allison TES 389	Allison TES 468



Applications

Delo Syn ATF 668 is designed for severe duty and extended drain intervals. It is approved for on-highway and vocational Allison transmissions that call for an Allison TES 668™ fluid.

Allison TES 668 is the next-generation standard that builds on the requirements of TES 295®, meeting the needs of current and future Allison transmission applications. Allison recommends that customers begin using this type of fluid.

Allison TES 668 fluids are backwards compatible for transmissions where the operating manual specifies the use of an Allison TES 295 or Allison TES 389™ approved fluid. TES 668™ fluids are also recommended for H 40/50 EP™ series parallel hybrid transmissions - Allison recommends that customers currently using a TES 468™ approved fluid in these transmission types should begin using a TES 668™ fluid for their next service.

- All 1000/2000, 3000, and 4000 series transmissions where TES 295 is specified for extended drain intervals.
- All 1000/2000, 3000, and 4000 series transmissions where TES 389 is specified (Delo Syn ATF 668 will provide improved oil drain and filter change intervals).
- All H 40/50 EP™ series parallel hybrid transmissions where TES 468™ is specified.
- Next generation of Allison transmissions that specify TES 668 fluids.

Delo Syn ATF 668 meets the needs, terms of warranty and policies of Allison Extended Transmission Coverages (ETC) with the following features:

- It provides the same oil change/drain intervals as TES 295 fluids.
- It has the same prognostic settings as TES 295 fluids.
- It is recommended for the same oil temperature operating range as TES 295 fluids.
- It will not affect the transmission oil cooling, oil levels, calibrations, or any other aspects of the transmission installation.

Approvals, performance and suitable for use

Approvals	Approval number
• Allison TES 668	668-10042020

Performance

- Allison TES 295
- Allison TES 389
- Allison TES 468

Product maintenance and handling

Avoid any spillage of used and unused product to the environment, product residue and package/container should be disposed of in dedicated collection points.

Typical test data		
Test	Test Methods	Results
Typical Shelf Life: 48 months from date of filling indicated on the product label*		
Density, 15 °C, kg/l	ASTM D4052	0.851
Kinematic viscosity at 100°C, mm ² /s	ASTM D445	6.76
Pour Point, °C	ASTM D5950	-54
Flash Point COC, °C	ASTM D92	238

* Typical Shelf Life: (a) if stored under normal conditions and (b) can be extended after re-testing.

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

Disclaimer: Data provided in this Product Data Sheet (PDS) is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PDS; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.

When disposing of used product, take care to protect the environment and follow local legislation.

Safety Data Sheets (SDS's) are available for all Chevron products. If you require a SDS or any further information regarding a Chevron product, please contact your local sales office or see www.texacolubricants.com.

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