

# FS Synthetic HD Next-Gen ATF

## Description

FS Synthetic HD Next-Gen ATF meets the Allison TES 668 standards and carries Allison's transmission engineering specification badge of approval 668-10462024. This robust formulation meets the most demanding specifications, designed for severe duty and extended drain intervals.

## Features and Benefits:

This full synthetic formulation maintains many advantages compared to mineral-based, non-synthetic fluids.

TES 668 builds on the performance of TES 295 fluid in several key areas, such as oxidative stability, anti-wear performance and friction modifier durability. These factors improve:

- The quality of the shifts.
- Noise reduction, vibration and harshness experienced as the fluid ages.
- Friction performance, this provides more consistent clutch application—even across temperature variations and load sizes.

## Applications:

- This next generation transmission fluid is specified for all Allison 1000 Series, 2000 Series, 3000 Series, 4000 Series and H 40/50 EP on-highway products.
  - Allison recommends that all TES 295, TES 389, and TES 468 users transition to TES 668
  - The latest additive technology maintains extended drain performance of TES 295.
  - TES 668 is specified for Allison products to ensure ideal operation. There are a range of problems that come from using an unapproved fluid in an Allison product, such as seal and friction issues, which will impact overall product durability. Using genuine automatic transmission fluid from an Allison Approved or Authorized partner is key to optimum performance and the long-lasting durability of Allison's products.
- Always check the owner's manual for a proper recommendation.



Approval Number  
668-10462024

## Typical Properties:

Description	Test	Typical Property
Kinematic Viscosity @ 40°C	ASTM D445	33.2 cSt
Kinematic Viscosity @ 100°C	ASTM D445	6.7 cSt
Viscosity Index	ASTM D2270	164
Brookfield Viscosity @ -40°C	ASTM D2983	11,620 cP
Pour Point	ASTM D5950	-51 deg C
Foam Sequence I	ASTM D892	10/0
Foam Sequence II	ASTM D892	10/0
Foam Sequence III	ASTM D892	20/0
Water content	ASTM D6304C	128 mg/kg <sup>2</sup>
Flash Point (COC)	ASTM D92	214 deg C

## Product Availability

Item No.	Pack Size
453972	Bulk
453973	Drum (55 gal.)
453974	Tote (265 gal.)
453975	Pail (5 gal.)