

Valvoline™ Syn Gard™ 668 ATF

Valvoline™ Syn Gard™ 668 ATF is an approved full synthetic heavy-duty automatic transmission fluid for use in Allison Transmissions. This fluid is formulated to meet and exceed the requirements of modern day transmissions where lubricants encounter very harsh conditions to provide extended drain capability. Syn Gard™ 668 ATF is approved for all TES 668 applications and is backwards compatible for TES 295 applications, including the Allison 1000 – 4000 series transmissions. It is also recommended for use in applications calling for TES-468 such as the H 40/50 EP Series transmissions.

Valvoline™ Syn Gard™ 668 ATF is recommended for Allison transmissions and similar applications calling for TES-668, TES-295, TES-468 and TES-389 approved fluids.

Specifications and Approvals

Syn Gard™ 668 ATF*	
Allison TES-668	<i>Approved</i>
App Num: 668-10112021	
Allison TES-295	
Allison TES-389	
Allison TES-468	

*Check owners' manual before use

Applications:

Valvoline™ Syn Gard™ 668 ATF ATF is approved for all TES 668 applications and is backwards compatible for TES 295 applications, including the Allison 1000 – 4000 series transmissions. It is formulated with premium base stocks, unique long-life friction modifiers, special anti-wear additives, and shear stable viscosity modifiers, among other performance packages, to fight the four major causes of transmission breakdown, including leaks, slippage, shudder and gear wear.

Suitable for use in a large range of heavy-duty automatic transmissions available in today's market.

Features and Benefits

Long Drain Intervals

Excellent friction durability and synthetic base stock makes it capable for extended oil drain intervals.

Corrosion protection

Enhanced with special anticorrosion additives for long drain application.

Advance additives

Modern additives protect against oxidation, foaming and deposits.

Superior Protection

Through use of synthetic base oil technology, SynGard™ 668 ATF fights the three major causes of transmission failure – heat, deposits and wear

Smooth operation

Smooth power transfer performance and maintains smooth shifting longer than conventional automatic fluids.

Keeping the world moving since 1866™

Serving more than 100 countries around the globe, Valvoline is a leading marketer, distributor and producer of quality branded automotive and industrial products and services. Products include automotive lubricants including MaxLife™, the first motor oil specifically formulated for higher-mileage vehicles; transmission fluids; gear oils; hydraulic lubricants; automotive chemicals; specialty products; greases, and cooling system products.

For more information on Valvoline products, programs and services please visit www.valvoline.com.au or contact the Technical Hotline on 1800 804 658 for product recommendations.

Typical Properties

Typical property characteristics are based on current production. Whilst future production will conform to Valvoline™ specifications, variations in these characteristics may occur.

Syn Gard™ 668 ATF	Typical
Viscosity @ 100 °C, mm ² /s, ASTM D445	6.8
Viscosity @ 40 °C, mm ² /s, ASTM D445	33.3
Viscosity Index, ASTM D2270	168
Density @ 15 °C, kg/L, ASTM D4052	0.851
Gear Scuffing Wear Test (FLS)	>12
Flash Point, °C, ASTM D92	204
TBN, mg KOH/g, ASTM D2896	4.7
Colour, Visual	Red

Note: Valvoline™ Syn Gard™ 668 ATF may be unsuitable for use in some transmissions, always consult owners' manual if in doubt.

This information only applies to products manufactured in the following location(s): Australia

Part Number	Pack Size
1448.10	10L
1448.20	20L
1448.28	208L
1448IBC	1000L

Health and Safety

This product is not likely to present any significant health or safety hazards when used correctly in the right application. Safety Data Sheet (SDS) is available on request via your local sales office or 1800 804 658 or through our website www.valvoline.com.au

Protect the Environment

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

Storage

Storage We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60 °C, exposed to hot sun or freezing conditions.

Author:

VP - Effective 31-08-2023
Replaces - 1448/02