

PRODUCT DATA SHEET & MSDS



DESCRIPTION

Blue Chip ATF 295-60S is a high performance, heavy duty automatic transmission fluid formulated with special base fluids and the latest ATF additive technology. It contains advanced chemistry designed for use in a wide variety of transmissions from around the world including, but not limited to, Allison, MAN, Mercedes-Benz, Voith and ZF.

FEATURES

- **Multiple applications:** reduces inventory costs, product range complexity and the costly risk of lubricant misapplication.
- **Longer fluid and equipment life:** prevents premature aging of the lubricant, maintains film thickness and anti-wear performance resulting in reduced maintenance costs and extended transmission life.
- **Better shift feel and performance:** superior anti-shudder performance ensures smooth gear shifts and a more comfortable ride.
- **Equipment compatible and fluid stability:** protects critical hydraulic pump components and prevents oil leakage.
- **Gear durability:** protects components from premature wear and failure that can lead to expensive repairs and downtime.

APPLICATIONS

ATF 295-60S is recommended for use in a wide variety of North American, European and Asian transmissions that is out of warranty. It is compatible with most high-performance stepped automatic transmissions and provides premium performance in older vehicles and equipment. Applications include:

- Passenger car automatic transmissions and power steering systems.
- Commercial vehicle automatic transmissions and power steering systems.
- Off-highway and construction equipment automatic transmissions.
- Hydraulic systems and transfer cases.

Blue Chip ATF 295-60S was developed for standard viscosity applications and has also proven to perform well in low viscosity applications.

TYPICAL PROPERTIES

PROPERTY	UNITS	TYPICAL	ASTM TEST
Appearance		Clear red fluid	
Oil Viscosity at 40°C	cSt	36.3	D445
Oil Viscosity at 100°C	cSt	7.6	D445
Viscosity Index		180	D2270
Density at 15°C	Kg/l	0.85	D4052
Flash Point; COC	°C	210	D93
Pour Point	°C	-48	D97

The above figures are typical values and do not constitute a specification

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PERFORMANCE LEVEL

The formulation used to produce Blue Chip ATF 295-60S is approved for applications where the following specifications are required:

- Ford MERCON V
- MAN 339 Type V1
- MAN 339 Type Z11
- Volvo 97340
- ZF TE-ML 14B
- JASO 1-A
- MAN 339 Type Z1
- MB 236.6
- Volvo 97341
- ZF TE-ML 16L
- MAN 339 Type L1
- MAN 339 Type Z2
- Voith H55.6335
- ZF TE-ML 04D
- ZF TE-ML 20B

ATF 295-60S is suitable for use where a fluid conforming to one or more of the following specifications are recommended:

- Allison C-4
- Ford FNR5
- GM Dexron IIIH
- MAN 339 Type Z12*
- ZL TE-ML 05L
- ZF TE-ML 16M*
- Allison TES-295*
- Ford XL-12
- MAN 339 Type V2*
- MOPAR AS68RC
- ZF TE-ML 09
- ZF TE-ML 20C*
- Allison TES-389
- GM AutoTrak-II
- MAN 339 Type Z3*
- Voith H55.6336*
- ZF TE-ML 14C*
- ZF TE-ML 21L

*Subject to reduced drain intervals.

All reasonable care has been taken to ensure that the information contained in this Product Data Sheet is accurate at the date of issue. It should be noted, however, that the information may be effected by changes, subsequent to the date of issue, in the blend formulation or the requirements of any third party specification relating to this product or the methods of application. Final determination of suitability of any material is the sole responsibility of the user.

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1. PRODUCT IDENTIFICATION

- Product : Automatic Transmission Fluid.
Company Identification : ATF 295-60S
Product Use : Automatic transmissions fitted to a wide variety of vehicles and off-road equipment.

2. COMPOSITION

- Chemical Composition : High quality base fluid with functional additives.
Hazardous Components : No component is present at sufficient concentration to require hazardous classification.

3. HAZARDS IDENTIFICATION

- Hazards : This material is not considered to be hazardous, but should be handled in accordance with good industrial hygiene and safety practices.

4. FIRST AID MEASURES

- Eye Contact : Flush eyes thoroughly with water. Obtain medical advice if any irritation occurs.
Skin Contact : Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin thoroughly. If irritation persists obtain medical attention.
Ingestion : Not expected to be a problem. If large quantities of this product are ingested obtain medical advice. DO NOT induce vomiting unless directed so by medical personnel. Never give anything by mouth to an unconscious person.
Inhalation : Avoid excessive inhalation of mists, fumes or vapour. This causes irritation to the nose, throat, and coughing. Remove person from exposure. If symptoms persist obtain medical advice.

5. FIRE FIGHTING MEASURES

- Extinguishing media : In case of fire use water sprays, fog or standard foam is recommended. DO NOT USE water jets. Water may be used to cool nearby heat exposed areas /objects. Avoid spraying directly into storage containers because of the danger of boil-over. Move container away from fire area if you can do it without risk.
Special hazards : Fires in confined areas should be dealt with by trained personnel wearing approved breathing apparatus. Toxic fumes may be evolved on burning or exposure to heat.
Protective clothing : Use suitable protective breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Any spillages should be regarded as a potential fire risk. In the event of spillage, remove all sources of ignition and ensure good ventilation. Spilled material may make surface slippery. Clean up spilled material immediately. It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated.
Environmental precautions : Do not wash product into drainage systems, protect drains from potential spills to minimize contamination.
In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover from the surface. Protect environmentally sensitive areas and water supplies. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

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- Small Spills : For small spills clean up the material immediately. Contain and recover spilled material using sand or other suitable inert absorbent material.
- Large Spills : Recovery of large spills should be affected by specialist personnel.

7. HANDLING AND STORAGE

- Handling precautions : Avoid contact with skin and observe good personal hygiene. Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate. Avoid frequent or prolonged skin contact with fresh or used product. Wash hands thoroughly after contact. Use disposable cloths and discard when soiled. Do not put soiled cloths in pockets. Take necessary precautions against accidental spillage into soil and water. Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times.
- Storage precautions : Store under cover away from heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Exposure Limits : There is no appropriate occupational exposure limit to this material.
- Engineering controls : The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. If vapour, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level.

Personal Protective Equipment

- Respiratory system : Respiratory protection is unnecessary, provided the concentration of vapour, mists or fumes is adequately controlled. The use of respiratory equipment must be strictly in accordance with any statutory requirements governing its selection and use.
- Hands : Use chemical resistant, impervious gloves.
- Eyes : Safety glasses with side shields. Goggles with a face shield may be necessary depending on conditions of use.
- Skin : Disposable outer garments where there is the potential for contact with the material.

9. TYPICAL ROPERTIES

PROPERTY	UNITS	TYPICAL	ASTM TEST
Appearance		Clear red fluid	
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10. STABILITY AND REACTIVITY

- Conditions to avoid : Sources of ignition. Thermal decomposition products will vary with conditions. Incomplete combustion will generate smoke, carbon dioxide and hazardous gasses, including carbon monoxide.
- Incompatible Materials : Avoid contact with strong oxidizing agents
- Stability : Stable at ambient temperatures. Hazardous polymerization reactions will not occur.

11. TOXICOLOGICAL INFORMATION

- Skin contact : Unlikely to cause harm to the skin on brief or occasional contact.

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- Eye contact : Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
- Ingestion : Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhea.
- Inhalation : At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May cause irritation to eyes, nose and throat due to vapour, mists or fumes. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occur.

12. ECOLOGICAL INFORMATION

- Aquatic toxicity : Spills may form a film on water surfaces causing physical damage to organisms; oxygen transfer could also be impaired.
- Biodegradability : This product is inherently biodegradable.
- Bio-accumulation : There is no evidence to suggest bio-accumulation will occur.
- Mobility : Spillages may penetrate the soil causing ground and water contamination.

13. DISPOSAL CONSIDERATIONS

- Disposal Methods : Where possible, arrange for the product to be recycled. Dispose via an authorized person / licensed waste disposal conductor in accordance with local regulations.

14. TRANSPORT INFORMATION

- Road Transport : Not classified as hazardous for transport

15. REGULATORY INFORMATION

- EEC hazard classification : Not classified

DISCLAIMER

The information provided in this data sheet and the health, safety and environmental information it contains, is correct to the best of our knowledge at the date of issue. However, neither Blue Chip Lubricants (Pty) Ltd nor any of its affiliates, accept any liability whatsoever for the accuracy or completeness of the information contained herein. Since this information may be applied under conditions beyond our control, we do not accept any responsibility for the results of its use. Final determination of suitability of any material is the sole responsibility of the user.