



PETRONAS Tutela ATF 700 HD

Designed to be the Fluid Technology Solution of choice providing excellent protection and longer oil life for automatic transmissions

Description and Applications

PETRONAS Tutela ATF 700 HD is a premium fully synthetic Automatic Transmission Fluid for buses, coaches and commercial vehicles, delivering increased drain intervals and total protection even in most severe conditions for today's automatic transmissions. Its wide coverage of major manufacturer specifications, thanks to extensive bench testing and field-testing, makes it suitable for use for virtually all heavy duty automatic transmissions.

PETRONAS Tutela ATF 700 HD meets the stringent requirement of most OEMs transmissions, approved for MAN, Voith, Volvo and ZF automatic transmissions. For this reason, it reduces the risk of using the wrong oil and simplifies inventory management.

Benefits

PETRONAS Tutela ATF 700 HD enhances your Business Profits and your vehicle availability while significantly reducing your operating costs through:

- **Extended Drain Interval and Transmission Life** driven by:
 - o Exceptional thermal and oxidation stability under high temperature, providing viscosity stability and preventing formation of deposits and sludge to prolong oil life even under severe conditions
 - o Enhanced shear stability for a constant film strength and effective lubrication during the oil service life to protect all moving parts
 - o Excellent anti-wear, gear and bearing protection under severe conditions to extend components life
 - o Extended transmission fluid life and prevention against fluid breakdown at higher operating temperatures for a total protection of the transmission

Provides outstanding Driving Experience through:

- **Extended friction durability** for superior anti-shudder performance and enhanced driving comfort
- **Exceptional low temperature viscosity** for improved lubrication during start-up and shifting comfort in cold conditions
- **Significantly reduced transmission noise**

Approvals, Specifications and Recommendations

Specifications:

- DEXRON®-IIIH
- Allison C-4 (TES-228)
- JASO 1-A

Approvals:

- MAN 339 Type L1, V2, Z11, Z2
- MB-Approval 236.93
- DTFR 13C170 (MB 236.9)
- Voith H55.6336.xx
- Volvo 97341
- ZF TE-ML 04D, 14B, 20B, 25B

Performance Level:

- Allison TES-389
- Allison TES-295
- Ford MERCON®V
- IVECO 18-1807 Class AG3/I
- IVECO 18-1807 Class AG3/IV
- Volvo 97340
- ZF TE-ML 05L, 21L

Note: Always consult your owner's manual to check recommended viscosity grade and specifications for your specific vehicle

Typical Physical Data

Parameters	Method	Unit	Typical Value
Appearance	-	-	Bright & Clear
Color	-	-	Red
Density @15°C	ASTM D 4052	g/cm ³	0.855
Kinematic Viscosity @100°C	ASTM D 445	mm ² /s (cSt)	7.7
Kinematic Viscosity @40°C	ASTM D 445	mm ² /s (cSt)	34
Viscosity Index	ASTM D 2270	-	179
Brookfield Viscosity @-40°C	ASTM D 2983	mPa.s (cP)	15000
Pour Point	ASTM D 97	°C	-51
Flash Point COC	ASTM D 92	°C	222

All technical data is provided for reference only. These characteristics are typical of current production. Whilst future production will conform to PLI's specification, variations in these characteristics may occur.

Health, Safety and Environment

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water.

For further detail regarding storage, safe handling, and disposal of product, please refer to product SDS or contact us at: www.pli-petronas.com

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