

**PETRONAS**

# PETRONAS Tutela Multi ATF 700

Designed to be the Fluid Technology Solutions of choice providing excellent protection and longer oil life for automatic transmission and power-steering systems

## Description and Applications

PETRONAS Tutela Multi ATF 700 is a DEXRON®-VI approved, fully synthetic multi-vehicle Automatic Transmission Fluid, Low Viscosity formulation, delivering fuel efficiency, long-lasting shifting performance and component durability for today's automatic transmissions over their standard service life. Its wide coverage of major manufacturer specifications, thanks to extensive bench testing and field-testing, makes it suitable for use for virtually all latest generation automatic transmissions, up to 9 speed. For this reason, Tutela Multi ATF 700 reduces the risk of using the wrong oil and simplifies inventory management.

PETRONAS Tutela Multi ATF 700 meets the requirement of Ford MERCON® LV and JASO M315-2013 1A-LV, standard recognized by Japanese OEMs for use in automatic transmissions. It is also suitable for use in power steering and hydraulic systems of passenger cars requiring GM DEXRON®-VI/Ford MERCON® LV and previous level of performances.

Its specific technology makes it suitable for hybrid electrified vehicles including Toyota Hybrid transmissions.

## Benefits

PETRONAS Tutela Multi ATF 700 enhances your vehicle availability while significantly reducing your operating costs through:

- **Fuel Economy** performance by **optimized transmission efficiency**:
  - o A lower viscosity fluid to help reduce operational energy losses.
- **Extended 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
  - o Enhanced shear stability for a constant film strength and effective lubrication to protect all moving parts
  - o Excellent anti-wear, gear and bearing protection 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
- **Compatibility with Electrical components**:
  - o Optimized electrical Conductivity/resistivity
  - o Enhanced copper corrosion protection

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
- **Significantly reduced transmission noise**

## Approvals, Specifications and Recommendations

### Specifications:

- Ford MERCON® LV
- JASO M315-2013 1A-LV, JASO M315-2013 1A, JASO M315-2013 2A

### Approvals:

- GM DEXRON®-VI

### Performance level:

- JWS 3309, JWS 3314, JWS 3324, JWS 3317
- Aisin Warner JWS 3309 (T-IV) & JWS 3324 (WS), AW-1, AW-2
- ATF RED 1, RED 1K
- Audi/Seat/Skoda/VW 5 HP LT71141 (ZF 5 HP 18FL/19FL/24A/30), G 052 025, G 053 025, G 052 162, G 055 025 (JWS 3309), G 052 162, G 055 005, G 055 162, G 060 162, G 052 990, G 055 540, 052 055, VW TL 521 62, VW G 053 001
- Bentley PY112995PA
- BMW JWS 3309 (T-IV), LA2634, LT71141, ZF 5HP18FL/19FL, 5HP24, 5HP30, 7045E, ETL 8072B, BMW MINI, BMW 83 22 0 142 516, ATF 6
- Chrysler/Dodge/Jeep ATF+2, +3 (MS 7176E), MOPAR AS 68 RC, AS 69 RC (T-IV), SP IV, NAG1, 05127382AA, 68043742AA, 68171866AA, 68157995AA, 68157995AB, 68218925AA, 68171869AA

- Daewoo LT 71141
- Daihatsu AMMIX ATF D-II, Daihatsu AMMIX ATF D-III SP
- FIAT 9.55550-AV1, 9.55550-AV2, 9.55550-AV3, 9.55550-AV5, 9.55550-AV6
- Ford MERCON®, FF-WSS-M2C-938A/SF, XT-10 QLV, FNR5, XT-9-QMM5, WSS M2C 138CJ, 166H, 922A1, 924A (XT-8-QAW) JWS 3309, XT-2-QDX (M), XT-2-QSM (Syn), ESP-M2C166H, XL-12, ATF C-ML5, XT-6-QSP/DSP
- Fuso ATF-II, Fuso ATF-SPIII, Fuso ATF-A4
- GM DEXRON-IIIIH, 9986195 (Aisin AW, JWS 3309), 1940700, 1940767, 21005966, 22717466, 88900925, 9986195, 93160393, AW1, 88863400, 88863401, Transfer Case (Auto trak II)
- Hino Blue Ribbon ATF
- Honda ATF-Z1 (except in CVTs), ATF Ultra II, DW-1, Honda Type 3.0 and Type 3.1
- Hyundai/Kia SP-IV, SP-IV M (SP4-M), SPH-IV, SP-IV-RR, SP-III, Dex-II/ SP-II, JWS 3314, NWS 9638
- Idemitsu K17 3100 PL085
- ISUZU ATF WSI, BESCO ATF-II, ATF-III, ATF SP, SCS Fluid, ISUZU 08200-9001
- IVECO 18-1807 Class AG3/VII, 18-1807 Class AG6
- Jaguar ATF 3403 M115, ATF LT71141, ZF 5HP24, ATF 3403 JLM20238, Jaguar K17, JLM 20292, Jaguar Fluid 8432, Jaguar 02JDE26444, WSS-M2C922A1
- Land Rover LR023288, TYK500050, LR0022460
- Maserati 231603
- Mazda ATF D-II, ATF M-III, ATF M-V, ATF FZ, ATF A7, ATF F-1, ATF S-1, ATF N-1, ATF 3317
- MINI COOPER T-IV
- Mitsubishi Diaqueen SK, SP-II, SP-III, SP-IV, AW, J2, J3, ATF PA, ATF MA-1
- Nissan Matic Fluid C/D/J/K/S/P/W
- Peugeot/Citroen (PSA) ZF 4HP20, Z 000169756, AL4 Automatic gearbox oil (#9730.AE), PSA 16 350 560 80, PSA B71 2340
- Porsche ZF 5HP19FL, ZF 5HP20, LT71141, ATF 3403-M115, T-IV (JWS 3309), 000 043 205 09, 999 917 547 00 (A2), 000 043 205 28, Z 000169756
- Renault DPO/AL4, Matic D2, Renault Samsung SATF-D
- Ssang yong DSIH 5M-66
- Subaru ATF, ATF 5AT, ATF HP, ATF AW-1, AT OIL 5D06, ATF 2326, ATF 2384K
- Suzuki ATF AW-1
- Toyota ATF T-IV, ATF WS
- Volvo 97325, 97335, CE 97340, PN 1161521, PN 1161540/1161640, PN 31256774/31256675, PN 1161621
- ZF all 3 & 4 speed, 6 Speed, 8 speed and 9 speed transmissions; ZF TE-ML 05L, 11A, 11B, 21L
- **e-Mobility claims:**
- Ford Escape Hybrid eCVT
- Jatco JR712E
- Mazda SKYACTIVE-HYBRID
- Nissan Altima Hybrid
- Toyota THSII

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 <sup>3</sup>	0,845
Kinematic Viscosity @100°C	ASTM D 445	mm <sup>2</sup> /s (cSt)	5.8
Kinematic Viscosity @40°C	ASTM D 445	mm <sup>2</sup> /s (cSt)	28
Viscosity Index	ASTM D 2270	-	152
Brookfield Viscosity @-40°C	ASTM D 2983	mPa·s (cP)	9900
Pour Point	ASTM D 97	°C	-54
Flash Point COC	ASTM D 92	°C	220

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 refers to product SDS or contact us at: [www.pli-petronas.com](http://www.pli-petronas.com)

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