



# PETRONAS Tutela MTF 500 75W-90

Designed to be the Fluid Technology Solution of choice providing improved protection for manual transmission systems

## Description and Applications

PETRONAS Tutela MTF 500 is a premium semi-synthetic Manual Transmission Fluid delivering optimized synchronizer performances and component durability for today's manual transmissions over their standard service life. Suitable in a wide range of operating temperatures, it's recommended in manual transmissions requiring API GL-4.

## Benefits

PETRONAS Tutela MTF 500 protects your Business Profits and your Vehicle Availability while reducing your operating costs, through:

- **Fuel Economy** capability by **optimized transmission efficiency**:
  - o A wider operating temperature to help reduce operational energy losses.
- **Longer Transmission Life** driven by:
  - o Enhanced anti-wear and gear protection to extend components life
  - o Enhanced thermal and oxidation stability under high temperature, preventing formation of deposits and sludge to prolong oil life and providing viscosity stability to prolong oil life

Provides excellent Driving Experience through:

- **Excellent synchronizer compatibility**
- **Robust corrosion protection** on yellow metals and steel
- **Excellent low temperature viscosity** for improved lubrication and shifting comfort during start-up in cold conditions

## Approvals, Specifications and Recommendations

### Specifications:

- API GL-4
- Bosch TE-ML 08
- ZF TE-ML 08

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
<b>Appearance</b>	-	-	Bright & Clear
<b>Density @15°C</b>	ASTM D 4052	g/cm <sup>3</sup>	0.860
<b>Kinematic Viscosity @100°C</b>	ASTM D 445	mm <sup>2</sup> /s (cSt)	14.8
<b>Kinematic Viscosity @40°C</b>	ASTM D 445	mm <sup>2</sup> /s (cSt)	100
<b>Viscosity Index</b>	ASTM D 2270	-	165
<b>Brookfield Viscosity @-40°C</b>	ASTM D 2983	mPa.s (cP)	125000
<b>Pour Point</b>	ASTM D 97	°C	-45
<b>Flash Point COC</b>	ASTM D 92	°C	210

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](http://www.pli-petronas.com)

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