

Product Data Sheet

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PETRONAS

PETRONAS Tutela Coolant LL Premix

Designed to be the Fluid Technology Solutions of choice providing excellent protection and longer fluid life for Vehicle cooling systems

Description and Applications

PETRONAS Tutela Coolant LL Premix is a premium performance ready to use Long-Life Coolant delivering optimized performance and component durability for vehicles cooling systems. Formulated with Mono-Ethylene Glycol enhanced with a special Organic Acid salts inhibitor (OAT Technology), free of nitrites, borates, phosphates, silicates and amines, it provides excellent protection against overheating, frost and corrosion. Thanks to its wide OEMs coverage, it is suitable for most European, Americans and Asian passenger cars, commercial vehicles and agriculture machineries.

Benefits

PETRONAS Tutela Coolant LL Premix enhances your vehicle availability while significantly reducing your operating costs through:

- **Long Life Technology** to extend the fluid service life, preventing from deposit formation
- **Extended Cooling System Life** driven by:
 - o Excellent corrosion resistance to protect metal-based components
 - o Enhanced protection against freezing when outside temperature is down to -38°C (-36.4°F)*
 - o Enhanced protection against boiling in case of circuit temperature up to 125°C (257°F)*
 - o Very good elastomer and plastic compatibility for a longer component's life

Provides outstanding Driving Experience through:

- **Excellent heat transfer properties to prevent overheating**

*With 1 bar (15 psi) radiator cap

Approvals, Specifications and Recommendations

Specifications:

- AFNOR NFR 15-601
- AS 2108-2004
- ASTM D 3306 Type III
- ASTM D 6210 Type III-FF
- BS 6580:2010
- CUNA 956-16
- ONORM V 5123
- SAE J1034
- SANS 1251:2005
- SH 0521-1999

Performance Level:

- CNHi MAT 3724
- CNHi MAT 3624
- DAF (MAT 74002)
- Daimler Truck Fluid Release 29D110
- Daimler/Mercedes-Benz 326.3
- Fiat 9.55523
- IVECO 18-1830
- MAN 324 Type SNF
- MTU MTL 5048
- Porsche from MY 1996 to MY 2010
- PSA B71 5110
- VW/Audi/Seat/Skoda TL 774-D/F

Note: Always consult your owner's manual to check recommendation for your specific vehicle

Typical Physical Data

Parameters	Method	Unit	Typical Value
Color	-	-	Pink
Relative Density @15°C	ASTM D 1122	g/cm ³	1.065
pH	ASTM D 1287	-	8.5
Reserve alkalinity	ASTM D 1121	ml	7.3
Boiling point	ASTM D 1120	°C	108
Freezing point	ASTM D 1177	°C	<-38
Glassware corrosion test	ASTM D1384	-	PASS

All technical data are 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

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