

Product Data Sheet

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PETRONAS

PETRONAS Tutela Coolant

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 is a high quality concentrated conventional Coolant delivering optimized performance and component durability for heavy-duty engines cooling systems. Formulated with Mono-Ethylene Glycol enhanced with a special Inorganic Acid corrosion inhibitor Technology with nitrites, borates and silicates (IAT Technology), free of phosphates and amines, it provides protection against overheating, frost and corrosion. Suitable for passenger cars, commercial vehicles and off-road machineries where a conventional coolant technology is required.

Benefits

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

- **Long Cooling System Life** driven by:
 - o Effective corrosion resistance to protect metal-based components
 - o Protection against freezing when outside temperature is down to -38°C (-36.4°F)*
 - o Protection against boiling in case of circuit temperature up to 125°C (257°F)*
 - o Elastomer and plastic compatibility for a longer component's life
- **Enhanced heat transfer properties to prevent overheating**

*When blended with 50% water and with 1 bar (15 psi) radiator cap

Approvals, Specifications and Recommendations

Specifications:

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

Performance Level:

- Chrysler MS-9769
- CNHi MAT 3620 (IAT)
- Daimler/Mercedes-Benz 325.0
- Fiat 9.55523
- IVECO 18-1830
- MTU MTL 5048
- John Deere JDM H 24
- Ford WSS-M97B51-A1

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

Typical Physical Data

Parameters	Method	Unit	Typical Value
Color	-	-	Yellow
Relative Density @15°C	ASTM D 1122	g/cm ³	1.135
pH, 50% vol in DI water	ASTM D 1287	-	6.5
Reserve alkalinity	ASTM D 1121	ml	17
Boiling point	ASTM D 1120	°C	>160
Freezing point, 50% vol in DI water	ASTM D 1177	°C	<-38
Heat-Rejecting Surface	ASTM D 4340	mg/cm ² /week	-0.09
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 refer to product SDS or contact us at: www.pli-petronas.com

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