



PETRONAS

PETRONAS Tutela Coolant LL-G

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-G is a premium performance concentrated Long-Life Coolant delivering optimized performance and component durability for vehicles cooling systems. Formulated with Mono-Ethylene Glycol enhanced with a special Hybrid Organic Acid inhibitor, silicates and phosphates (HOAT Technology), free of nitrites and amines, it provides excellent protection against overheating, frost and corrosion. Suitable for Europeans, Americans and Asian passenger cars and commercial vehicles

Benefits

PETRONAS Tutela Coolant LL-G 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**

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

Approvals, Specifications and Recommendations

Specifications:

- AFNOR NF R 15-601
- AS 2108-2004
- ASTM D 3306
- ASTM D 4985
- ASTM D 6210
- BS 6580:2010
- CUNA NC 956-16
- JIS K 2234:2006
- ONORM V 5123
- SAE J1034
- SANS 1251:2005

Performance Level:

- BMW N 600 69.0
- Bez. Reg. Amsberg, Dept. Of Mining and Energy 84.12.22.63-2001-2
- Daimler/Mercedes-Bens 325.0
- Deutz H-LV 0161 0188
- German Army TL 6850-0038/1
- Jenbacher TA-Nr. 1000-0201
- Liebherr Machines Bulle TVL 035 / TVL 23009 A
- MAN 324-NF
- MTU MTL 5048
- Opel/General Motors B 040 0240
- Porsche for 924, 928, 944, 968
- Saab 6901599
- VW / Audi / Seat / Skoda TL 774-C

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

Typical Physical Data

Parameters	Method	Unit	Typical Value
Color	-	-	Blue-Green
Relative Density @15°C	ASTM D 1122	g/cm ³	1.125
pH, 50% vol in DI water	ASTM D 1287	-	7.2
Reserve alkalinity	ASTM D 1121	ml	14
Boiling point	ASTM D 1120	°C	>165
Freezing point, 50% vol in DI water	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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