

Product Data Sheet

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PETRONAS

PETRONAS Tutela Brake Fluid DOT 4

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

Description and Applications

PETRONAS Tutela Brake Fluid DOT 4 is a premium quality performance hydraulic brake and clutch systems fluid, delivering optimized performance and component durability for today's Vehicles braking systems. Especially recommended for ABS, TCS, ESP/DSC systems.

Benefits

PETRONAS Tutela Brake Fluid DOT 4 enhances your vehicle performances while significantly reducing your operating costs through:

- **Long Braking System Life** driven by:
 - o Enhanced corrosion protection to protect metal-based components.
 - o Good thermal stability to deliver stable fluid performances during the service life.
 - o Effective lubricity to prevent squeak noise and improve the system reaction time.
 - o Good elastomer and rubber compatibility to prevent fluid leakages and longer component's life

Provides outstanding Driving Experience through:

- **Optimal pedal run stability** due to no hysteresis in cold/hot/cold condition
- **Enhanced prevention against brake system fading** even in the most severe conditions thanks to its high thermal resistance.
- **Good fluidity at low temperature** for effective system reaction time
- **High dry boiling point** to prevent vapor lock conditions and optimized braking efficiency.
- **High wet boiling point** for a long braking efficiency during the service life, improving the vehicle safety.

Approvals, Specifications and Recommendations

Specifications:

- FMVSS No. 116 DOT 3, DOT 4
- ISO 4925 Class 4
- SAE J 1703
- SAE J 1704

Performance Level:

- Continental ATE N 553 11 05
- FCA 9.55597 DOT 4
- IVECO 18-1820
- MAT 3630
- MS-90039
- Nissan NES-M5 055
- Renault 41-02-001/-E

Note: Always consult your owner's manual to check recommended viscosity grade and specifications for your specific vehicle;

WARNING: PETRONAS Tutela Brake Fluid DOT 4 should never be used in place of or mixed with silicone-based brake fluids (DOT 5) nor should be used where DOT 5.1 fluids are prescribed.

Typical Physical Data

Parameters	Method	Unit	Typical Value
Color	-	-	Yellow
Relative Density @20°C	ASTM D 5931	g/cm ³	1.048
Kinematic Viscosity @100°C	ASTM D 445	mm ² /s (cSt)	2.21
Kinematic Viscosity @-40°C	ASTM D 445	mm ² /s (cSt)	1325
Boiling Point	ASTM D 1120	°C	258
Wet Boiling Point	ASTM D 1120	°C	160
Effect on Rubber SBR	ISO 4925	-	PASS
Effect on Rubber EPDM	SAE J 1703	-	PASS
Effect on Rubber Natural	ISO 4925	-	PASS

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

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