



PRODUCT INFORMATION & DATA SHEET

PRINCE® BRAKE FLUID DOT 5.1

PRINCE® BRAKE FLUID DOT 5.1 is a state-of-the-art, reduced viscosity, high-performance 100% synthetic brake fluid that is especially designed for all kind of brake and clutch systems that including disc brakes, drum brakes, and those equipped with Electronic Stability Program (ESP) system, Anti Brake Skid (ABS) anti-locking system and Auto Emergency Braking (AEB) system.

Due to its significantly improved low temperature properties compared to common DOT 4 brake fluid, this product allows easier lubricant circulation and penetrate through the micro-valves of anti-locking system for much better ABS response. It also allows enhanced performance of ESP system that require quick brake system actuation. Excellent temperature/viscosity behavior help extend the operating life of braking system.

This brake fluid meets the performance requirement of international specifications:

SAE J1703/J1704, ISO 4925 Class 3/Class 4/Class 5.1, FMVSS 116 DOT 5.1 Non-Silicone Based

Some of the benefits of using this brake fluid:

- A long-life brake fluid that features significantly superior thermal resistant properties and higher wet boiling point compared to DOT 4 brake fluid
- Contains unique additive package allow exceptional low and high-temperature lubricity, ensures smoother and precise operations of braking systems
- Dry ERPB boiling point of (>260 °C) and cold ambient protection of (-35 °C and below) guarantee the most reliable and safety braking operations
- Features lower viscosity characteristic compared to DOT 4 brake fluid which delivers better frictional coefficient and ensures high-speed operation of systems
- Neutralizes water condensation and helps absorb moisture from the air, prevents the formation of steam bubbles reliably
- Neutral with sealing materials used in the braking systems and elastomers compatibility
- Outstanding anti-oxidant agents and inhibitor package were added to prevent corrosion and rust formed on metallic brake components

Areas of application

Well-suited for applications in all disc brakes, drum brakes, clutch systems installed in high-performance and common passenger cars, commercial trucks, motorbikes, as well as for those equipped with modern safety braking systems that include ABS, AEB, ESP, ASR that the manufacturers require using a DOT 5.1 brake fluid.

Can be mixed and compatible with DOT 5.1, DOT 4, DOT 3 non-silicone based brake fluids.

However, strictly do not mix with DOT 5 silicone based brake fluid and any kind of mineral oil based hydraulic fluids.

Typical properties

Colour		Amber
Dry ERBP; °C	ISO 4925	>260
Wet ERBP; °C	ISO 4925	>175
Viscosity at 100 °C; mm ² /s	ASTM D445	2.4
Viscosity at 40 °C; mm ² /s	ASTM D445	870
Density at 20 °C; kg/m ³	ASTM D941	1065.0
Flash Point; °C, open cup	ASTM D92	>100

Recommendation

Observe and follow the operating instructions. It is recommended that the brake fluid to be changed in accordance with the manufacturers' specification and recommendation. For safety advice, drain and re-fill once a year is highly recommended. Peak performance is guaranteed only upon using alone without mixing with other commercially available brake fluids.

24 months of shelf life in original and sealed container, tightly closed to prevent chance of moisture absorption. Do not contact with bare hand, varnish and paint!

Product availability

This product may not be available locally. Contact your local distributor.

The information show herein is subject to change without noticed. The product indicated here have been developed by PRINCE LUBRICANTS for use in the areas of applications shown. We reserve all right to alter the characteristics and product properties to align with continually technical development.