



WHY IS **BRAKE FLUID** IMPORTANT?

Brake fluid plays a crucial role in the brake system as it transfers the force created when a driver presses the brake pedal directly down to the wheel hub. Heat generated under braking, especially under heavier or prolonged braking, may affect the brake fluid which will only work if it is liquid and will not work if exposed to high temps as it will become vapour. Therefore the boiling point your brake fluid can achieve is critical to efficient braking, as temperatures above the boiling point form vapour bubbles in the system, potentially resulting in brake failure.

In addition, the brake fluid serves as a lubricant for all movable parts and prevents corrosion. It has to be compatible with rubber seals and hoses thus allowing braking systems to achieve long service and optimal performance.

WHY DOES **BRAKE FLUID** DETERIORATE?

Brake fluid is hygroscopic - meaning that it absorbs moisture during its life in your car through the pipes, hoses and joints that it lubricates. As the water content in the brake fluid increases, the temperature the liquid boils at decreases from when the brake fluid is 'dry' (ie no water content when new) to when it is 'wet' (contaminated with water).

The boiling point can be significantly reduced by water contamination below 3,5 %. See below the difference in boiling temperatures for DOT 4 ESP Brake Fluid and how it exceeds the international standards or performance (known as the DOT standard).

	Dry Boiling Point (°C)	Wet Boiling Point (°C)
DOT 4 Standard	≥ 260 ✓	≥ 160 ✗
DOT 4 LV Brake Fluid	≥ 260 ✓	≥ 16 ✗

THE **COMPREHENSIVE RANGE OF MINTEX PRODUCTS** INCLUDES FOUR SAFETY-OPTIMIZED BRAKE FLUIDS THAT CAN BE USED INDIVIDUALLY:

- **DOT 3** brake fluid is to be used for brake and clutch systems if specified in the car manufacturers guide lines.
- **DOT 4** brake fluid is recommended for brake and clutch systems for which a nonpetroleum fluid is specified, including ABS.
- **DOT 4 LV/DOT 5.1** brake fluid is recommended for vehicles with ESP/ASR systems. Also suitable for all brake and clutch systems for which a non-petroleum fluid is specified.
- **LHM+** hydraulic fluid is suitable for vehicles requiring a mineral based brake fluid (e.g. certain Citroen models).



Important: Brake fluid should be replaced every 2 years or when boiling point drops below 200°C. In case boiling point drops below 180°C brake fluid must be replaced immediately! Exact boiling point is identified easily and accurately by using MINTEX brake fluid tester "MINI000BFT".