



# Brake Fluid DOT 4

## Efficient performance automotive brake fluid

### Product description

Brake Fluid DOT 4 is an efficient performance non-petroleum automotive brake fluid, designed for use in conventional hydraulic brakes and clutch systems, where DOT 4 fluids are recommended.

Brake Fluid DOT 4 is a complex mixture of polyglycol ethers, glycol ether borate esters and polyglycols with additional corrosion and oxidation inhibitors.

### Customer benefits

- Higher boiling point (260°C) than other DOT 4 brake fluids, and retention of boiling point in service helps prevent high temperature vapour formation, maintaining braking performance longer than DOT 3 products
- Contributes an additional safety margin against vapour lock when compared with lower specification fluids
- Buffered formulation maintains pH level in the alkaline range, helping protect cast iron and steel components
- Inhibitors contribute to corrosion protection of a wide variety of metals including aluminium, brass, copper, zinc and tin
- Seal swell and lubricity characteristics help prevent fluid leaks and reduce component wear
- Thermal and oxidation stability helps resist fluid degradation, maintaining key performance features throughout fluid service life
- Suitable for a wide range of vehicle types, reducing inventories

### Product highlights

- **High boiling point**
- **Helps prevent vapour lock**
- **Contributes to component wear and corrosion protection**

#### Selected specification standards include:

FMVSS 116 DOT 3	SAE J1703
FMVSS 116 DOT 4	SAE J1704
ISO 4925	

## Applications

Brake Fluid DOT 4 meets the recognised standards for clutch and brake fluids as demanded by leading motor vehicle manufacturers.

- All hydraulically operated motor vehicle braking systems (drum and disc types) for which a DOT 4, SAE J1704 or ISO 4925 Class 4 fluid is specified
- Make-up or service fill of braking systems requiring DOT 3, SAE J1703 or ISO 4925 Class 3 fluids
- Vehicles with anti-lock (ABS) braking systems
- Hydraulic clutch systems requiring conventional fluids
- Passenger cars, commercial road transport, off-highway vehicles, agricultural tractors and motorcycles

Brake Fluid DOT 4 is compatible with other brands of DOT 4/DOT 3 brake fluid.

Brake Fluid DOT 4 should not to be used in systems designed for mineral oil based fluids (LHM), for example certain Citroën models, or where Silicone DOT 5 fluids are recommended.

## Approvals, performance and recommendations

### Performance

- |         |              |                    |
|---------|--------------|--------------------|
| • FMVSS | 116 DOT 3    | Meets requirements |
| • FMVSS | 116 DOT 4    | Meets requirements |
| • ISO   | 4925 Class 3 | Meets requirements |
| • ISO   | 4925 Class 4 | Meets requirements |
| • SAE   | J1703        | Meets requirements |
| • SAE   | J1704        | Meets requirements |

Typical test data		
Test	Test methods	Results
<b>Product Code</b>		<b>25004</b>
Colour	FMVSS 116 (13)	Pale Amber
Equilibrium Reflux Boiling Point, °C	FMVSS 116 (1)	260 min
Wet Equilibrium Reflux Boiling Point, °C	FMVSS 116 (2)	165 min
Density, 20 °C, kg/L	ASTM D4052	1.050
Viscosity, Kinematic, -40 °C, mm <sup>2</sup> /s	FMVSS 116 (3)	1500 max
Viscosity, Kinematic, 100 °C, mm <sup>2</sup> /s	FMVSS 116 (3)	2.4

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