



Brake Fluid DOT 4

Efficient performance automotive brake fluid

Product Data Sheet

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

Applications

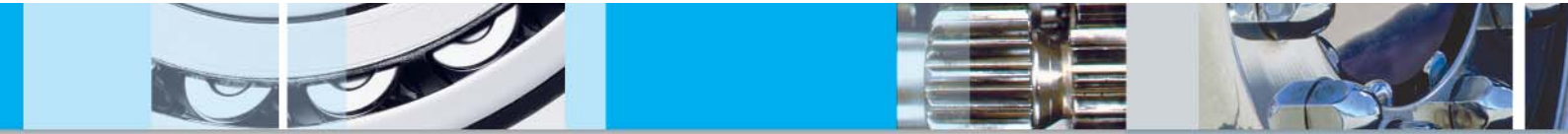
Brake Fluid DOT 4 meets the recognised standards for clutch and brake fluids as demanded by leading motor vehicle manufacturers.

- 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

Product highlights:

- High boiling point
- Helps prevent vapour lock
- Contributes to component wear and corrosion protection
- Selected specification standards include:
 - FMVSS 116 DOT 3, 116 DOT 4
 - ISO 4925
 - SAE J1703, J1704

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- 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 and performance

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 |



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continued

Typical test data

BRAKE FLUID DOT 4		
TEST	TEST METHODS	RESULTS
Product Code		25004
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, mm²/s	FMVSS 116 (3)	1500 max
Viscosity, Kinematic, 100 °C, mm²/s	FMVSS 116 (3)	2.4

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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