



Brake and Clutch Fluid DOT 4

High performance non-petroleum automotive brake fluid

Product Data Sheet

Product description

Brake and Clutch Fluid DOT 4 is a high performance non-petroleum automotive brake fluid, designed for use in conventional hydraulic brake and clutch systems operating in severe conditions, where DOT 4 fluids are recommended.

Brake and Clutch Fluid DOT 4 is a complex mixture of Polyglycols, Polyglycol Ethers and Glycol Ether Borate Esters, blended with inhibitors designed to prevent corrosion and oxidation and to control seal swell characteristics.

Customer benefits

- Excellent long-term braking performance through maintenance of a higher fluid boiling point with minimum high temperature vapour formation
- Superior vapour-lock resistance compared with fluids meeting less stringent specifications
- Suitable for a wide range of brake system applications
- Advanced, buffered formulation protects cast iron and steel against acidic oxidation products by keeping pH in alkaline range
- High performance inhibitors prevent corrosion in metals such as aluminium, brass, copper, zinc and tin
- Seal swell control and lubricity characteristics minimize leakage through seal shrinkage and component wear
- Thermal oxidation resistance prevents harmful deposit formation and maintains performance across fluid service life

Applications

Brake and Clutch Fluid DOT 4 meets the recognised standards for clutch and brake fluids as demanded by leading motor vehicle manufacturers. Additionally, it complies with the US Federal Motor Vehicle Services Specification (FMVSS) No. 116 DOT 4, DOT 3, SAE J 1703 and ISO 4925 specifications. It also meets the requirements of the earlier specifications: SAE 70R 1 and 3, SAE J70 C, SAE J 1703 A to F and SAE J 1703 Jan 80, Nov 83 and Oct 85


Product highlights:

- Excellent long-term braking performance
- Suitable for a wide range of braking systems
- Corrosion protection
- Oxidation resistant
- Selected specification standards include:
 - FMVSS
 - Ford
 - ISO
 - JIS
 - NATO
 - SAE

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- All hydraulically operated motor vehicle braking systems (drum and disc types) for which a DOT 4 or SAE J1704 fluid is specified
 - Make-up or service fill of braking systems requiring DOT 3 or SAE J1703 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 and Clutch Fluid DOT 4 is compatible with other brands of DOT 4/DOT 3 brake fluid.

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

Approvals and performance specifications

Performance specifications

• FMVSS	116 DOT 3	Meets requirements
• FMVSS	116 DOT 4	Meets requirements
• Ford	ESD-M6C57-A	Meets requirements
• Ford	ESD-M6C9102-A	Meets requirements
• Ford	ESD-M6C9103-A	Meets requirements
• ISO	4925	Meets requirements
• JIS	K2233 TYPE 3	Meets requirements
• JIS	K2233 TYPE 4	Meets requirements
• NATO	H-542 (OX-8)	Meets requirements
• SAE	J1703	Meets requirements
• SAE	J1704	Meets requirements



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brake fluid

continued

Typical test data

BRAKE AND CLUTCH FLUID DOT 4		
TEST	TEST METHODS	RESULTS
Product Code		510663
Colour	FMVSS 116 (13)	Amber
Equilibrium Reflux Boiling Point, °C	FMVSS 116 (1)	251
Wet Equilibrium Reflux Boiling Point, °C	FMVSS 116 (2)	160
Viscosity, Kinematic, -40 °C, mm²/s	FMVSS 116 (3)	1296
Viscosity, Kinematic, 100°C, mm²/s	FMVSS 116 (3)	2.2
pH value	FMVSS 116 (4)	8.3

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.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

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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