

# PRODUCT INFORMATION



## Brake & Clutch Fluids

Version: **CC2/003**

## Valvoline™ Brake & Clutch Fluid DOT 5.1

**For all disc-, drum- and anti-skid braking systems, used in passenger cars, trucks and other vehicles requiring DOT 5.1 level performance.**

A high performance synthetic brake fluid based on glycol ethers and derived borate esters for the most severe driving conditions.

### Performance levels

SAE J1704
FMVSS 116 DOT 5.1
ISO 4925 Class 5.1

### Applications

Brake & Clutch Fluid DOT 5.1 is specifically developed for hydraulic brake systems of cars, trucks and other vehicles driving under the most severe conditions, like rallying and racing, driving in mountain areas, stop-and-go driving, etc.

Suitable for cars with ABS and ASR anti-block and anti-slip systems.

Use only in its concentrated form out of a previously unopened or well sealed container. Always close the container directly after use, as the fluid absorbs moisture from the atmosphere, which reduces the service life of the product considerably. Never use drained brake fluid. Brake fluid can affect the vehicle paintwork, so remove spills immediately without rubbing.

Brake fluid should be drained from the vehicle every two years or 40.000 kilometers (24.000 miles) and refilled. Check your owner's manual for details.

### Features & Benefits

#### Superior performance

Brake & Clutch Fluid DOT 5.1 is suitable for all disc- and drum- braking systems, used in passenger cars, trucks and other vehicles, requiring DOT 5.1 level performance.

Also suitable for cars with ABS and ASR anti-block and anti-slip systems. The product is safe for all materials used in the brake system.

Excellent performance under the most severe conditions, like rallying and racing, driving in mountain areas, stop-and-go driving, etc.

#### Excellent water absorption properties

The hygroscopic properties of Brake & Clutch Fluid DOT 5.1 means condensation water is absorbed which slowly lowers the boiling point. It is recommended that the product is refreshed every 2 years.

#### Excellent viscosity-temperature properties

Excellent viscosity-temperature properties over a very high and low temperature range. Stable viscosity over a long period.

Brake & Clutch Fluid DOT 5.1 has a high (270°C) dry boiling point.

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## Keeping the world moving since 1866™

Serving more than 100 countries around the globe, Valvoline is a leading marketer, distributor and producer of quality branded automotive and industrial products and services. Products include automotive lubricants; transmission fluids; gear oils; hydraulic lubricants; automotive chemicals; specialty products; greases, and cooling system products.

For more information on Valvoline products, programs and services please visit [www.valvolineeurope.com](http://www.valvolineeurope.com)

## Typical properties

Typical property characteristics are based on current production. Whilst future production will conform to Valvoline specifications, variations in these characteristics may occur.

Brake & Clutch Fluid DOT 5.1	
Colour	Clear yellow
Appearance	Clear liquid
Viscosity, mm <sup>2</sup> /s @ 100 °C.	2,0
Viscosity, mm <sup>2</sup> /s @ -40 °C.	700
Specific Gravity @ 20°C. ASTM D-4052	1,060
Dry boiling point °C.	270
Wet boiling point °C.	183
Flash Point, COC, °C. ASTM D-92	>126
pH (50% vol.)	8,30

This information only applies to products manufactured in the following location(s): Europe

## Health & Safety

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet <http://msds.valvoline.com>

## Protect the environment

Take used brake and clutch fluids to an authorized collection point. Comply with local regulations. Do not discharge into drains, soil or water.

## Storage

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.

Replaces – CC2/002

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