

# Product Information



A PRODUCT OF THE VALVOLINE COMPANY A DIVISION OF ASHLAND INC.

## Valvoline Brake & Clutch Fluid DOT 5.1

CC2/001

**Valvoline Brake & Clutch Fluid DOT 5.1** is a high performance synthetic brake fluid on basis of Glycol Ethers, and derived Borate Esters, especially developed for hydraulic brake systems of cars, trucks and other vehicles driving under more severe conditions, like rallying and racing, driving in mountain areas, stop and go work etc. 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. Valvoline Brake & Clutch Fluid DOT 5.1 has a high (270°C) dry boiling point and can be used at very high and very low temperatures. Brake fluids are hygroscopic; by absorbing condensation water, the boiling point will slowly go down, therefore it is recommended that the product is refreshed every 2 years. The brake fluid can be mixed with other brake fluids which are on basis of Glycol Ether or borate ester and have similar specifications. The product must not be mixed with silicone type or silicate ester type brake fluids.

### Applications:

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

### Recommendations for use:

- 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 km. (24.000 miles) and refilled.
- Check your Owners Manual for details.

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### **Performance levels**

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SAE	J. 1704
FMVSS 116	DOT 5.1

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### **Typical Properties**

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Viscosity, mm <sup>2</sup> /s @ 100 °C	2.2
Specific Gravity g/ml @ 20°C.	1.06-1.08
Dry Boiling Point °C.	270
Flash Point °C. (PMCC) ASTM D93	129
Appearance	Clear liquid
Colour	Clear yellow

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

Effective Date:	Replaces:	Author's Initials:	Code
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