Product Information

A PRODUCT OF ASHLAND CONSUMER MARKETS, A COMMERCIAL UNIT OF ASHLAND INC.

Brake & Clutch Fluids

Version: **CC1/002**

Valvoline™ Brake & Clutch Fluid DOT 3 & 4

A high performance non-mineral brake fluid. Based on glycol ethers and specifically developed for hydraulic brake systems.

The high boiling point of Brake & Clutch Fluid DOT 3 & 4 means it is safe for all materials within the brake system. It is recommended that brake and clutch fluids are refreshed every two years.

Performance levels

SAE J.1704
FMVSS 116

Applications

Brake & Clutch Fluid DOT 3 & 4 is suitable for all disc- and drum- braking systems, used in passenger cars, trucks and other vehicles, requiring DOT 3 or DOT 4 level of performance.

Can be mixed with other brake fluids which are based on glycol ether or borate ester and have similar specifications. The product should not be mixed with silicone type or silicate type brake fluids.

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.

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.

Features and Benefits

Excellent performance
Brake & Clutch Fluid DOT 3 & 4 provides excellent performance under severe conditions, such as sport style and mountain driving.

Excellent water absorption properties
The hygroscopic properties of Brake & Clutch Fluid DOT 3 & 4 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 3 & 4 has a high (260°C.) dry boiling point.

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Health and Safety

This product is not likely to present any significant health or safety hazards when used correctly in the right application. A Material and Safety Data Sheet (MSDS) is available on request via your local sales office or via the internet @ **http://msds.ashland.com**

Protect the Environment

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

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 3 & 4	
Colour	Clear yellow
Appearance	Clear liquid
Viscosity, mm^2/s @ 100 ºC.	2.2
Specific Gravity @ 20°C. ASTM D-4052	1.04-1.06
Dry boiling point ºC.	260
Flash Point, PMCC, ºC. ASTM D-92	133

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

People Who Know Use Valvoline™

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 including MaxLife™, the first motor oil specifically formulated for higher-mileage vehicles; 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**

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