

# KLONDIKE DOT 5.1 UNIVERSAL SYNTHETIC BRAKE FLUID



## PRODUCT DESCRIPTION

KLONDIKE DOT 5.1 Universal Synthetic Brake Fluid for hydraulically actuated Brake and Clutch systems on motor vehicles.

## APPLICATIONS

KLONDIKE DOT 5.1 Universal Synthetic Brake Fluid is a premium fluid exceeding global requirements for performance and safety. For use in all disc and drum hydraulically actuated brake systems, including ABS, in passenger cars, light trucks, and other motor vehicles where the use of brake fluid meeting DOT 3, DOT 4, DOT 4 LV, DOT 5.1, DOT 5.1 LV, or DOT 5 EHV is specified. A truly universal fluid which can be used with confidence for use in virtually\* all motor vehicles globally.

Also designed for use in hydraulically actuated clutch systems where brake fluid is specified.

Check your owner's manual for specified or recommended fluid type.



## SPECIFICATIONS AND APPROVALS

KLONDIKE DOT 5.1 Universal Synthetic Brake Fluid meets and exceeds the requirements of the following specifications:

- FMVSS/CMVSS 116 DOT 5.1, DOT 4, DOT 3
- SAE J 1703, J 1704
- ISO 4925 – Classes 3, 4, 5.1, 6, 7

OEM specifications include (but are not limited to);

- |  |  |
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| • BMW<br>QV 34001  | • Peugeot<br>S 71 2114<br>class 4<br>class 6                         |
| • Ford<br>M6C9103A<br>M6C57A<br>M6C65-A1<br>M6C65-A2<br>M6C65-A3 | • Renault<br>41.02.001<br>class 3<br>class 4<br>class 5<br>03-50-006 |
| • GM<br>16072<br>GMW 3356  | • Suzuki<br>59100-510XD  |
| • Holden<br>HN 1796  | • Toyota<br>TSK 2602 G<br>class 3<br>class 4<br>class 5              |
| • Mazda<br>MN 120 C  | • VW / Audi<br>TL 766 X<br>TL 766 Y<br>TL 766 Z                      |
| • Mercedes-Benz<br>MB 331  |  |
| • Nissan<br>M5055<br>NR3<br>NR4                                  |  |

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## FEATURES AND BENEFITS

KLONDIKE DOT 5.1 Universal Synthetic Brake Fluid is a specially blended formulation designed for maximum performance and safety, meeting and exceeding the highest OEM global standards for brake fluids.

KLONDIKE DOT 5.1 Universal Synthetic Brake Fluid is designed to deliver exceptional system protection and consistent performance characteristics. Very high typical wet boiling point (ERBP) of 274 °C ensures the fluid is highly resistant to brake fade and performance loss – even under extreme braking conditions. This fluid has wide system applicability and will maintain excellent lubricity characteristics and promotes long braking system life.

Premium low viscosity formulation ensures prime response times and efficient operation of sensitive brake system components, such as ESP systems, even when extremely cold, while maintaining excellent lubricity for increased system life. This fluid has very wide applicability and can be used with confidence in any brake system where the use of glycol ether fluid is specified. This includes the latest generation full electric and electric hybrid vehicles where low conductivity is essential, as well as high performance European vehicles.

KLONDIKE DOT 5.1 Universal Synthetic Brake Fluid provides value through the following benefits:

- **Extended system life** – excellent lubricity for reduced internal friction.
- **Performance** – outstanding wet and dry boiling point ensure maximum braking performance in all operating conditions
- **Very wide application** – applicable for use in virtually\* all motor vehicles globally using glycol ether brake fluid

## TYPICAL TECHNICAL PROPERTIES

PROPERTY	TYPICAL RESULTS	DOT 5.1 UNIVERSAL SPECIFICATION
Dry Equilibrium Reflux Boiling Point, °C	274	260 min
Wet Equilibrium Reflux Boiling Point, °C	184	180 min
Kinematic Viscosity @ -40°C, cSt	690	900 max
Kinematic Viscosity @ 100°C, cSt	2.04	1.5 min
pH	7.6	7 – 11.5
High Temperature Stability, °C	-1.0	+/- 3.0 °C max
Chemical Stability, °C	+1.0	+/- 3.0 °C max
Evaporation, % w/w	65	80% max
Fluidity and Appearance @ -40 °C	Pass, 2 seconds	No freezing, bubble time 10 sec. max
Fluidity and Appearance @ -50 °C	Pass, 4 seconds	No freezing, bubble time 35 sec. max
Water Tolerance @ -40 °C	Clear, 2.5 seconds	10 sec. max
Water Tolerance @ 60 °C	Clear, no sediment	Sediment not to exceed 0.05% v/v
Compatibility @ -40 °C	Clear, no stratification	No stratification
Compatibility @ 60 °C	Clear, no sediment	Sediment not to exceed 0.05% v/v
Colour, visual	Pale straw	Water white to amber
Water content, %	< 0.15	Not required
Density @ 20 °C, g/ml	1.067	Not required

All stated physical properties are typical of standard production and may vary.

\*Do not mix with or use in systems designated for DOT 5 (silicone based).



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## HEALTH AND SAFETY

This product is not expected to have adverse health implications when used for its intended application. For detailed information on safe handling of this product, refer to its Material Safety Data Sheet (MSDS). To obtain an MSDS on this or any other KLONDIKE product, please visit [www.klondikelubricants.com](http://www.klondikelubricants.com) or call 1-877-293-4691. When disposing of used product, be responsible to the environment.

## PRODUCT NUMBERS

KLONDIKE DOT 5.1 Universal Synthetic Brake Fluid	Bottle: 500 mL	KL-CH1434
	Bottle: 1 L	KL-CH1440

## BRAVING THE FORCE OF MOVEMENT

KLONDIKE stands for robust, reliable, high quality products tailored to suit the requirements of the on- and off-road heavy duty, automotive and industrial markets. Our solutions span from trend-setting retail lubricants through small-batch custom formulations to large bulk orders ready for immediate delivery.

The extensive KLONDIKE product range includes premium oils, lubricants, greases, chemicals and specialty fluids formulated with virgin base oils and protective inhibitors. Designed to handle the most extreme climates and operating conditions, the KLONDIKE products protect and extend the life of your equipment, optimize performance and improve productivity while meeting and exceeding industry standards and specifications.

### **KLONDIKE** Lubricants Corporation

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