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Brake Fluid Racing

Very high performance non silicone brake fluid for racing brake systems. It possesses exceptional dry boiling point: typical value is more than 300°C.

PAKELO BRAKE FLUID RACING is a very high performance non silicone synthetic brake fluid, specifically studied and formulated for racing braking systems.

During their functioning brakes release a high quantity of heat: under the most severe working conditions and in the most critical parts, the brake fluid can reach temperatures up to 230°C and beyond this in case of racing cars.

The boiling point must be the highest possible otherwise the extreme working conditions may cause the phenomenon known as “vapour lock” (vapor bubbles that form in the braking system, with the dangerous and unpleasant situation of a “soft foot brake pedal”).

Brake fluids are in general hygroscopic and absorb humidity through the flexible tubes and the brake fluid tank: the boiling point of such fluid could dangerously fall with presence of water and early oxidation phenomena of the product can happen.

The boiling point of PAKELO BRAKE FLUID RACING (typical value 310°C) largely exceeds SAE J1703 and F.M.V.S.S No. 116 performance limit of DOT 4 brake fluids.

Even under the presence of humidity the boiling point remains, however, higher compared to common brake fluids. This characteristic virtually removes the danger of “vapour lock” in any working condition.

PAKELO BRAKE FLUID RACING is furthermore characterized by a reduced compressibility at very high working temperatures too.

Such peculiarity guarantees both superior brake reactivity and optimal modulability of the braking phase.

Use

We recommend to use the product in this way:

1. drain completely with care the braking system;
2. flush the braking system with PAKELO BRAKE FLUID RACING letting the product drain;
3. finally fill in the system with PAKELO BRAKE FLUID RACING up to the recommended level;
4. when used for racing competitions, change PAKELO BRAKE FLUID RACING just before and just after the race, in particular if used under humid and raining conditions.

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Application fields

PAKELO BRAKE FLUID RACING is ideal for braking systems of racing vehicles (cars and motorbikes).

Product characteristics guarantee both superior brake reactivity and optimal modulability of the braking phase.

PAKELO BRAKE FLUID RACING is chemically compatible and miscible with similar products (non silicone based) exceeding DOT 3, DOT 4 e DOT 5.1 specifications.

However, we strongly recommend not to mix it with other products or with other brake fluids already in the system. In case of mixing the high technical performance of the product is not guaranteed, in particular at high working temperatures.

The characteristics of PAKELLO BRAKE FLUID RACING make this product particularly suitable for braking systems of commercial vehicles even using Anti-lock Braking Systems (ABS).

Storage

PAKELO BRAKE FLUID RACING, as the majority of brake fluid, is hygroscopic (absorbs humidity from the atmosphere). It is recommended to store the product in closed containers and to avoid any contamination of water or other substances that can compromise the exceptional properties of this product.

Performance levels

Exceeds FMVSS N°116 - DOT 4 specification for brake fluids.

Chemical-Physical Characteristics

Brake Fluid Racing	Method analysis	Unit measure	Value
Appearance	-	-	liquido limpido
Colour	-	-	ambra
Density at 20°C	ASTM D1298	kg/l	1,080
Kinematic Viscosity at 100°C	ASTM D445	cSt	2,6
Kinematic Viscosity at -40°C	-	cSt	< 1800
E.R.P.B. (Equilibrium Reflux Boiling Point)	-	°C	310
Wet E.R.P.B. (Wet Equilibrium Reflux Boiling Point)	-	°C	210
Flash Point (PM)	ASTM D93	°C	> 140

The data just above refer to average values and must not be understood as guaranteed characteristics.

This Technical Data Sheet has been carefully checked to guarantee complete and precise information. However, we do not take any responsibility in case of damages caused by any mistakes or omissions. Due to continual product research and development, the information contained herein is subject to change without notification.