

Gulf Competition RF800 and RF1000

High Performance Hydraulic Brake Fluids for Racing Applications

Product Description

Gulf Competition RF800 and RF1000 are extremely high performance glycol-based brake fluids designed for use in cars and motorbikes under racing and rallying conditions. Not only do these products far exceed the requirements of the United States Federal Motor Vehicle Safety Standard (FMVSS) 116 DOT 4, they have exceptionally high boiling points, over 300 °C – amongst the highest available in the market for glycol-based brake fluids. This feature distinguishes them from standard high performance brake fluids, as they are suitable for use even when the brake discs get so hot they start to glow orange-red. Under such high temperatures standard brake fluids could exceed their boiling point (typically 230-260 °C) and start to vaporise, thus seriously impairing braking performance. Gulf Competition Brake Fluids are available in two versions, with typical equilibrium reflex boiling points (ERBPs) of 305 and 325 °C.

Features & Benefits

- Extremely high boiling point minimises the risk of vapour lock when the brakes get very hot, as often happens under race conditions. This improves the reliability and safety braking of performance under the most severe situations.
- Excellent oxidative stability: resists oxidation at high temperatures encountered in disk braking systems
- Superior high temperature stability combined with low temperature fluidity, so the fluid maintains viscosity and lubricity at extreme temperatures, thus ensuring trouble-free operation
- Formulated to inhibit corrosion of the metallic components used in brake systems
- Compatible with all seals and metals used in vehicle braking systems requiring poly glycol brake fluids

Applications

- Severest duty applications, especially for car and motorcycle racing and rally events where high brake temperatures are to be expected
- For best results, bleed the brake system before each race and refill the reservoir with fresh brake fluid, especially if the brakes have been very hot and/or local atmospheric conditions are very humid.
- Hydraulic brake fluid systems (disk, drum and anti-locking brake systems) in cars, motorcycles and commercial vehicles where DOT 4 type of brake fluid is specified

Specifications, Approvals & Typical Properties

Typical Values			Gulf Competition	
Property	Test Method	DOT 4 Limits	RF800	RF1000
Viscosity @ -40 °C, cSt	FMVSS 116	1800 max.	1700	1700
Viscosity @ 100 °C, cSt	FMVSS 116	1.5 min.	2.6	2.6
Equilibrium Reflex Boiling Point – Dry (ERBP), °C	FMVSS 116	230 min.	305	325
Wet ERBP, °C	FMVSS 116	155 min.	205	205
pH value	FMVSS 116	7.0 to 11.5	7.15	7.15
Density @ 15°C, Kg/l	ASTM D 1298	n/a	1.08	1.08
High Temperature Stability, °C	FMVSS 116	-3 to +3 °C	-1	-1
Chemical Stability, °C	FMVSS 116	-3 to +3 °C	+1	+1

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