

Product Data Sheet

Racing Brake AR 8 and AR 10

Description and Applications

Saheli Racing Brake AR 8 and AR 10 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 vaporize, thus seriously impairing braking performance.

Saheli Racing Brake AR fluids are available in two versions, with typical Equilibrium Reflex Boiling Points (ERBPs) of 305 and 325 °C.

Features and Benefits

- The extreme high boiling point of **Saheli Racing AR** fluids minimizes the risk of vapour lock when brakes get very hot, as often happens under race conditions. This improves the reliability and safety of braking system under most severe situations.
- Excellent oxidative stability at high temperatures encountered in disk braking systems.
- Superior high temperature stability combined with low temperature fluidity ensures trouble free operation.
- Effective corrosion inhibitors provide long-term corrosion protection to the metallic components of the brake systems.
- Compatible with all seals and metals used in conventional braking systems requiring poly glycol brake fluids.

Applications

Saheli Racing Brake AR fluids are recommended in severest duty applications especially for car and motorcycle racing and rally events where high brake temperatures are to be expected.

For best results, brake system has to be bled before each race and reservoir refilled with fresh brake fluid especially if brakes have been very hot and/or local atmospheric conditions is very humid.

Saheli Racing Brake AR can also be used in 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.

Warnings: *Saheli Racing Brake AR fluid should never be used in place of or mixed with silicone-based brake fluids, nor should they be used where mineral oil brake fluids are recommended. All brake fluids should be kept clean and dry. Dirt or water contamination can affect the performance of brake fluid and could cause brake system failure. Brake fluids can affect the vehicle paintwork, so remove spills immediately without rubbing.*

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Test Parameters	Test Meth.	DOT 4 Limits	Typical Results	
			AR8	AR10
Racing Brake				
Density @ 15°C gm/cm3	ASTMD 4052	N/A	1.08	1.08
Viscosity @ -40°C mm2/s	FMVSS 116	1800 max	1700	1700
Viscosity @ 100°C mm2/s	FMVSS 116	1.5 min	2.6	2.6
Wet ERBP, °C	FMVSS 116	155 min	205	205
pH Value	FMVSS 116	7 to 11.5	7.15	7.15
High Temp. Stability, °C	FMVSS 116	-3 to +3	-1	-1
Chemical Stability, °C	FMVSS 116	-3 to +3	+1	+1
Equilibrium Reflex Boiling Point – Dry (ERBP), °C	FMVSS 116	230 min	305	325

The information contained in this data sheet are indicative and correspond to the date of publication of this document. The above data are based on laboratory tests. It is the reader's interest to ensure whether the most recent version of the data sheet. A safety data sheet is available on request by our sales consultant. For more information, please contact the sales department.

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