



# Gulf Super HD Brake Fluid DOT 4

*Extra high performance hydraulic brake fluid*

## Product Description

**Gulf Super HD Brake Fluid DOT 4** is extra high performance poly glycol based brake fluid developed for superior braking performance in a wide range of vehicles including those operating at higher temperatures. It contains oxidation and corrosion inhibitors to resist oxidation at the high temperatures encountered in the disc braking systems and to provide superior protection against corrosion of metallic components of the brake system. It exceeds the performance requirements of United States Federal Motor Vehicle Safety Standard (FMVSS) 116 DOT 4. It also meets the severe equilibrium reflux boiling point (ERBP) requirements (both dry & wet) of FMVSS DOT 5.1 standard and at the same time requirements of certain OEMs requiring higher cold temperature viscosity than the maximum allowed by the DOT 5.1.

## Features & Benefits

- Extremely high boiling point reduces impact of moisture absorption, delays onset of vapour lock and improves reliability and safety of braking system under extreme driving conditions
- Superior oxidative stability resists oxidation at high temperatures encountered in disk braking systems
- Superior high temperature stability and low temperature fluidity ensure trouble free operation
- Effective corrosion inhibitors provide long term corrosion protection to the metallic components of the brake systems
- Provides lubricity and system protection
- Compatible with all seals and metals used in conventional braking systems requiring poly glycol brake fluids

## Applications

- Hydraulic brake fluid systems in cars, motorcycles and commercial vehicles where DOT 4 type of brake fluid is specified
- Hydraulic brake systems of certain OEMs requiring product meeting ERBP requirements but having higher cold temperature viscosity than the maximum allowed by the DOT 5.1 standard.
- For improved braking performance, it can also be used in hydraulic brake systems of vehicles requiring DOT 3 or SAE J 1703 quality fluids
- Hydraulic clutch systems requiring fluids of this quality

## Warnings

- Gulf Super HD Brake Fluid DOT 4 should never be used in place of or mixed with silicone based brake fluids (DOT 5) nor should be used where DOT 5.1 fluid is required
- 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

## Specifications, Approvals & Typical Properties

Meets the following Specifications		
FMVSS 116 DOT 4		
Typical Properties		
Test Parameters	Test Method	Test Values
Viscosity @ -40 °C, cSt	FMVSS 116	< 1800
Viscosity @ 100 °C, cSt	FMVSS 116	> 1.5
ERBP, °C	FMVSS 116	> 260
Wet ERBP, °C	FMVSS 116	> 180
pH value	FMVSS 116	7.0 to 11.5
Density @ 15°C, Kg/l	D 1298	1.06

Properties mentioned are typical only and minor variations, which do not affect product performance, are expected to arise in normal manufacturing processes. Please follow equipment manufacturer's recommendations for performance level and viscosity grade. The Safety Data Sheet for this product is available from your nearest Gulf Distributor. Please consult our local representative if any further information is required.

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