

# Product data

## Response Super Dot 4

### PRODUCT DESCRIPTION

**CASTROL RESPONSE SUPER DOT 4** is a performance, high boiling point polyglycol type brake fluid designed to provide superior braking performance in a variety of vehicles, especially those that operate at higher temperatures or under increased loads. The product has been formulated to give outstanding system protection against corrosion and high temperature vapour lock.

### PRODUCT APPLICATION

**CASTROL RESPONSE SUPER DOT 4** is suitable for use in all brake fluid systems in cars, motorcycles and light commercial vehicles requiring either a DOT 3, DOT 4 or Super DOT 4 product (excluding where a mineral oil based fluid is specified). **CASTROL RESPONSE SUPER DOT 4** can be used with either disc or drum brakes, including modern vehicles fitted with ABS systems. The product is also suitable for use in hydraulic clutch systems.

### PRODUCT FEATURES & BENEFITS

**CASTROL RESPONSE SUPER DOT 4** offers the following performance benefits:

1. High boiling point – exceeds US FMVSS DOT 3 and DOT 4 specification requirements, and offers a performance reserve over brake fluids with lower boiling points.
2. High vapour lock temperature – greater protection against brake fluid vaporization.
3. Corrosion protection – outstanding protection against corrosion caused by absorbed moisture, that can contribute to lower maintenance costs.
4. High temperature stability provides a greater margin for safety because product performance will not fade under higher temperatures.

5. Controlled viscosity requirements – under extremes of temperature and operating conditions, **CASTROL RESPONSE SUPER DOT 4** will maintain an optimum operating viscosity to ensure greater safety.
6. Rubber swell control – contributes to efficient operation of the braking system components.
7. Compatible with all other brake fluids that meet either DOT 3, DOT 4 or Super DOT 4 specification.

### **CHANGE PERIODS**

Although **CASTROL RESPONSE SUPER DOT 4** is formulated to withstand water absorption, all brake fluids deteriorate to some extent during use. It is strongly recommended that brake fluid be changed according to the vehicle manufacturers' advice, or every 2 years.

Furthermore, for maximum motoring safety Castrol suggests an inspection of the brake system by a qualified brake specialist at least once every 20,000 km.

### **TYPICAL CHARACTERISTICS**

|                                    | <b>DOT 3<br/>Specification<br/>Requirement</b> | <b>DOT 4<br/>Specification<br/>Requirement</b> | <b>CASTROL<br/>RESPONSE<br/>SUPER DOT<br/>4</b> |
|------------------------------------|--|--|---|
| <b>Dry Boiling<br/>Point ♦</b>     | <b>205</b>                                     | <b>230</b>                                     | <b>286</b>                                      |
| <b>Wet Boiling<br/>Point ♦</b>     | <b>140</b>                                     | <b>155</b>                                     | <b>184</b>                                      |
| <b>Viscosity @<br/>-40°C (max)</b> | <b>1500</b>                                    | <b>1800</b>                                    | <b>1250</b>                                     |
| <b>Viscosity @<br/>100°C (min)</b> | <b>1.5</b>                                     | <b>1.5</b>                                     | <b>2.5</b>                                      |
| <b>pH</b>                          | <b>7 to 11.5</b>                               | <b>7 to 11.5</b>                               | <b>7.8</b>                                      |

♦ **Equilibrium Reflux Boiling Point (ERBP).**

**CASTROL RESPONSE SUPER DOT 4** is undyed as per US FMVSS DOT requirements for polyglycol brake fluids. It is light gold in colour.

## **WARNING FOR POLYGLYCOL BRAKE FLUIDS**

- Keep out of reach of children.
- Harmful if swallowed. If swallowed, rinse mouth with water and give plenty of water to drink. If vomiting occurs, give further water. Seek medical advice immediately.
- If splashed in eyes, flood affected area with copious quantities of water for 10 minutes. Seek medical advice immediately.
- Avoid skin contact. Affected areas should be washed with mild soap and water
- If spilled on paintwork, wash off immediately with water – do not wipe.
- In the event of spills, absorb with sand or soil, collect and seal in properly labeled drums and refer to State Land Waste Management Authority for disposal.
- Dirt, grease and other foreign particles will affect the efficient operation of a brake system.
- Draw brake fluids directly from sealed containers – this reduces the possibility of moisture absorption. Reseal containers immediately after use, discard empty containers and never refill empty containers. Fluid held in partially filled containers should be discarded 12 months after opening.
- Topping up brake systems with lower performance fluids will reduce both system and fluid performance. If this occurs, the system should be flushed and refilled with **CASTROL RESPONSE SUPER DOT 4** to provide full performance protection.

## HEALTH, SAFETY & ENVIRONMENT

**CASTROL RESPONSE DOT 4** is considered non-hazardous according to Worksafe. However, in line with safe handling practices, it is recommended that the handling instructions outlined in the Castrol Material Safety Data Sheet be followed.

### Spillage

- Small:** Soak up using an inert mineral adsorbent such as Castrol Diatomaceous Earth and dispose of in the appropriate manner.
- Large:** Corrective action usually dictated by individual company safety procedures. Immediate containment and subsequent removal is essential.
- Disposal:** Refer to local Waste Disposal Authority for legal requirements.

### Product Removal

- Bare Metal Surfaces:** Wash off with water or Castrol water based degreasers.
- Hand Cleaning:** Use any of the Castrol range of hand cleaners, e.g. CareClean Plus.
- Other Surfaces:** Wash off with water; DO NOT attempt to wipe off painted surfaces as damage to paintwork may result, as brake fluid can soften paintwork.

Although all reasonable care has been taken to ensure that the information contained in this publication is accurate as at the time of printing, such information is nevertheless liable to variation in the event of changes occurring subsequent to the date of printing it: the blend formulation, methods of storage, or due to the improper handling or application of any of the products referred to, or in the requirements of any specification or approval relating to any of the products.

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