Daryl Zebrasky

Daryl Zebrasky

AMSOIL Regulatory Compliance

DATA BULLETIN

AMSOIL DOT 3 & 4 Synthetic Brake Fluid
AMSOIL DOMINATOR® DOT 4 Synthetic Racing Brake Fluid

Brake fluid acts as a hydraulic fluid, transferring power and lubricating brake system components while also preventing corrosion. It must contend with extreme heat and the inevitable moisture contamination that can lead to a brake system failure. AMSOIL synthetic brake fluids surpass Department of Transportation (DOT) requirements and provide auto enthusiasts and racers with a brake fluid that delivers superior high-temperature performance.

Fights Water Contamination

Water contaminates the brake system by seeping through microscopic pores in flexible brake lines and seals and through the reservoir fill cap. Brake fluid itself is hygroscopic (attracts moisture). Once introduced to the system, water reduces boiling points and compromises performance. It corrodes brake parts, lines and seals, leading to eventual failure. AMSOIL synthetic brake fluid's superior wet boiling points counteract these problems. They lubricate and protect intricate brake components despite the inevitable water contamination. A nitrogen blanket is added to each bottle during manufacturing to purge moisture and ensure the maximum level of performance.

Firm Pedal Feel

The extreme pressure and high heat common to brake systems can push brake fluid beyond its boiling point, causing it to vaporize or "boil-off." Water contamination can accelerate the process. This leads to a spongy or unresponsive feeling in the brake pedal (vapor lock). In contrast, the unique chemistry behind AMSOIL synthetic brake fluids increases boiling points well beyond DOT standards, even when contaminated with 3.7 percent water. AMSOIL Brake Fluids maintain a stable viscosity over a wide temperature range and flow easily at the high pressures generated in today's automotive brake systems to deliver solid, reliable braking.

Maximum ABS and Traction-Control Performance

AMSOIL DOT 3 & 4 Synthetic Brake Fluid's low-viscosity (817 cSt) provides superior cold-weather performance and excellent ABS and traction-control responsiveness. It covers a broad range of applications and exceeds DOT 3, 4 and 5.1 specifications.

Ultra-High Boiling Points

AMSOIL DOMINATOR® DOT 4 Synthetic Racing Brake Fluid features ultra-high boiling-points of 410ºF (wet) and 580ºF (dry). It maintains a low compressibility during the most extreme racing conditions.



DOT 3 & 4

- **Maximum ABS** and **traction-control** performance



DOMINATOR® DOT 4 Racing

- High boiling points **resist brake fade** and **vapor lock**

TYPICAL TECHNICAL PROPERTIES

AMSOIL Synthetic Brake Fluid

	DOT 3 & 4 (BFLV)	DOMINATOR® DOT 4 Racing (BFR)	DOT 3 Specification	DOT 4 Specification	DOT 5.1 Specification
Equilibrium Reflux Boiling Point					
Dry* °C (°F)	271 (520)	304 (580)	Min 205 (401)	Min 230 (446)	Min 260 (500)
Wet** °C (°F)	187 (368)	210 (410)	Min 140 (284)	Min 155 (311)	Min 180 (356)
Viscosity					
-40°C (-40°F), cSt	817.0	1550.0	Max 1500	Max 1800	Max 900
100°C (212°F), cSt	2.0	2.0	Min 1.5	Min 1.5	Min 1.5

** Dry equilibrium reflux boiling point (ERBP) – the boiling point of new, freshly opened brake fluid.*

*** Wet ERBP – the boiling point of brake fluid having absorbed 3.7 percent water.*

APPLICATIONS

Use **AMSOIL DOT 3 & 4 Synthetic Brake Fluid** in passenger car, light truck and powersports applications that require a DOT 3, 4 or 5.1 product. Do not mix with DOT 5 fluid.

Refer to your owner's manual regarding the proper change interval for your brake fluid and to determine the correct DOT classification. Change fluid every two years for maximum performance.

Use **AMSOIL DOMINATOR® DOT 4 Synthetic Racing Brake Fluid** in racing applications that require a DOT 4 product. Change fluid once a year for maximum performance.

Consult the AMSOIL Product Guide at www.amsoil.com for more application information.

AMSOIL PRODUCT WARRANTY

AMSOIL products are backed by a Limited Liability Warranty. For complete information visit www.amsoil.com/warranty.aspx.

HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended applications and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available online at www.amsoil.com or upon request at (715) 392-7101. **Keep Out of Reach of Children**. Recycle used fluid and bottle.

AMSOIL The First in Synthetics®

AMSOIL products and Dealership information are available from your local full-service AMSOIL Dealer.

AMSOIL INC., 925 Tower Ave., Superior, WI 54880 • 715-392-7101 • Printed in the USA.
© 2017, AMSOIL INC. All rights reserved. The AMSOIL logo is a registered trademark of AMSOIL INC.