Solutions from DuPont

Brake Fluids

Dupont Brake Fluids Exceed Technical Specifications and Standard Requirements

DuPont Brake Fluids

DuPont offers a broad portfolio of fluid technologies to ensure the safe and efficient operation of today's demanding motor vehicle braking, air conditioning and engine systems. We offer a complete line of DOT 3, DOT 4, DOT 5.1 and racing brake fluids. DuPont also provides additional performance fluids and lubricants worldwide, including mobile air conditioner compressor lubricants and engine coolants.

DuPont is a leading provider of the key raw materials used to produce many automotive system fluids, including glycol ethers, glycols and polyglycols. This, combined with more than 50 years of materials science and application expertise, enables us to provide OEM and aftermarket customers with automotive fluid solutions that meet or exceed performance and cost targets.

DuPont is the largest global producer of brake fluids for OEM and aftermarket customers. Our premium brake fluids, fully tested and certified, exceed technical specifications and standard requirements including:

- FMVSS No. 571 116, DOT 3, DOT 4, DOT 5.1
- SAE J1703 and J1704
- ISO 4925

Solution

DuPont brake fluids provide a unique balance of the following properties and are statistically monitored to ensure product consistency:

- Wet and dry boiling point
- Low-temperature viscosity
- Corrosion protection
- Compatibility with braking system components
- Long-term stability

Since key raw materials are internally produced and refined to meet the required specifications, product quality is consistently achieved.

Performance Advantages

Safety, reliability and comfort continue to be increasing requirements for brake devices in the automotive market. As the automotive industry looks for innovative technologies for fuel efficiency gains, brake systems get more and more sophisticated and require increased reliability.

You can improve the long-term performance of your brake systems with DuPont premium brake fluids made from high-quality materials to help ensure consistent and efficient braking.

Brake Fluids Performance Summary – Typical Properties

Brake Fluid	Classification	ERBP (°C)	ERBP (°F)	WERBP (°C)	WERBP (°F)	Viscosity -40 °C (mm2/s)	Viscosity 100 °C (mm2/s)	Density (g/cm3)	Color (Gardner)
DOT 3 Specification	FMVSS 116	Min 205	401	Min 140	284	Max 1500	Min 1.5	*	Colorless to Amber
DOT 4 Specification	FMVSS 116	Min 230	446	Min 155	311	Max 1800	Min 1.5	*	Colorless to Amber
DOT 5.1 Specification	FMVSS 116	Min 260	500	Min 180	356	Max 900	Min 1.5	*	Colorless to Amber
DBF1000	DOT 3	261	502	151	304	1200	2.2	1.018	Amber
DBF310	DOT 3	258	496	151	304	1108	2.0	1.044	Amber
DBF315	DOT 3	258	497	156	313	864	1.83	1.070	Amber
DBF360	DOT 3	273	522	152	306	1105	2.0	1.027	Amber
DBF372LB	DOT 3	255	491	147	297	640	2.2	1.037	Amber
DBF415	DOT 4	256	494	162	324	1088	2.1	1.074	Amber
DBF455	DOT 4	263	505	161	322	1450	2.1	1.062	Amber
DBF460	DOT 4	272	522	169	336	1039	2.3	1.054	Amber
DBF700	DOT 4	267	512	171	340	680	2.0	1.030	Amber
DBF800	DOT 4	274	526	184	363	767	2.23	1.060	Amber
Racing	DOT 4	304	579	210	410	1550	2.0	1.063	Amber
DBF565	DOT 5.1	271	519	187	368	817	2.0	1.067	Amber

*Need to test; no requirement

Full-Service Support from a Single-source Supplier

- More than 50 years of experience in supplying fluids to OEM and aftermarket customers
- State-of-the-art process technology
- Facilities have been QS-9000 certified since 1997
- All facilities were ISO/TS 16949 certified in 2003

In addition to the largest selection of materials solutions, DuPont offers the following services to meet your automotive fluids needs:

- Product development support
- Materials engineering reviews
- Submission of production part approval process information, including full material specification data
- Cost-saving opportunities aligned with value-engineering initiatives
- Product samples and functional trials
- R&D, manufacturing and management services with product optimization

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