

# Global DOT5.1 Brake Fluid Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global DOT5.1 Brake Fluid market size is expected to reach \$ 739 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032). In 2025, the global production of DOT 5.1 brake fluid was approximately 82,000 tons, with an average selling price of approximately US\$5,800 per ton. The production capacity in 2025 was 106,000 tons, with an average gross profit margin of approximately 15-25%. DOT 5.1 brake fluid is a high-grade, fully synthetic brake fluid with high dry and wet boiling points and excellent low-temperature fluidity. It is suitable for high-performance, heavy-duty vehicles and vehicles equipped with ABS, ensuring the safe and reliable operation of the braking system under various conditions. It utilizes advanced alcohol ether borate ester synthesis technology, preventing the formation of air bubbles and vapor bubbles, and providing rust prevention and protection for brake system components.

The upstream raw materials for DOT 5.1 brake fluid mainly include basic chemical raw materials such as ethylene oxide/propylene oxide, boric acid/borate esters, and various high-performance additives (such as corrosion inhibitors, antioxidants, pH stabilizers, and dyes). Its downstream applications are directly in industries and scenarios with extremely high demands on braking system performance, primarily including the high-performance automotive manufacturing and modification industry, high-end passenger cars, heavy-duty commercial vehicles, motorcycle racing, and military and special vehicles.

DOT 5.1 brake fluid, as a high-performance brake fluid, holds a significant position in the braking systems of automobiles, motorcycles, and other vehicles worldwide. Compared to DOT 3 and DOT 4 brake fluids, DOT 5.1 has higher dry and wet boiling points, resulting in superior performance in high-temperature environments. It effectively prevents brake fluid vaporization and evaporation, reducing the risk of brake failure. This makes DOT 5.1 widely used in high-performance cars, racing cars, heavy-duty

trucks, and demanding high-load driving environments, especially suitable for prolonged high-speed driving and aggressive braking situations.

With the increasing demands for safety, performance, and durability in the global automotive industry, the market demand for DOT 5.1 brake fluid is steadily growing. Furthermore, with the continuous advancement of automotive technology, the application of braking systems in high-temperature and high-humidity environments is becoming more common, further driving the demand for DOT 5.1 brake fluid. Although its price is slightly higher than DOT 3 and DOT 4, its superior performance ensures its continued widespread use in high-end vehicles and racing markets, giving DOT 5.1 brake fluid a promising market outlook.

This report studies the global DOT5.1 Brake Fluid production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for DOT5.1 Brake Fluid and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of DOT5.1 Brake Fluid that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global DOT5.1 Brake Fluid total production and demand, 2021-2032, (Kilotons)

Global DOT5.1 Brake Fluid total production value, 2021-2032, (USD Million)

Global DOT5.1 Brake Fluid production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global DOT5.1 Brake Fluid consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: DOT5.1 Brake Fluid domestic production, consumption, key domestic manufacturers and share

Global DOT5.1 Brake Fluid production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global DOT5.1 Brake Fluid production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global DOT5.1 Brake Fluid production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global DOT5.1 Brake Fluid market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mobil, BASF, Shell, FUCHS, BP, BOSCH, Idemitsu, TotalEnergies, United Oil, Delphi, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World DOT5.1 Brake Fluid market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global DOT5.1 Brake Fluid Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global DOT5.1 Brake Fluid Market, Segmentation by Type:

Hydraulic Fluid Based on Water

Silicone-based Fluid

Global DOT5.1 Brake Fluid Market, Segmentation by Performance:

Standard

High-Performance

### Global DOT5.1 Brake Fluid Market, Segmentation by Boiling Point:

Dry Boiling Point

Wet Boiling Point

### Global DOT5.1 Brake Fluid Market, Segmentation by Application:

Passenger Car

Racing

Motorcycle

Others

### Companies Profiled:

Mobil

BASF

Shell

FUCHS

BP

BOSCH

Idemitsu

TotalEnergies

United Oil

Delphi

Sinopec

Lopal Tech

Sanvo

**Key Questions Answered:**

1. How big is the global DOT5.1 Brake Fluid market?
2. What is the demand of the global DOT5.1 Brake Fluid market?
3. What is the year over year growth of the global DOT5.1 Brake Fluid market?
4. What is the production and production value of the global DOT5.1 Brake Fluid market?
5. Who are the key producers in the global DOT5.1 Brake Fluid market?
6. What are the growth factors driving the market demand?

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