

Global DOT5.1 Brake Fluid Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G08DF6DCCF02EN.html>

Date: December 2025

Pages: 117

Price: US\$ 3,480.00 (Single User License)

ID: G08DF6DCCF02EN

Abstracts

According to our (Global Info Research) latest study, the global DOT5.1 Brake Fluid market size was valued at US\$ 489 million in 2025 and is forecast to a readjusted size of US\$ 739 million by 2032 with a CAGR of 6.1% during review period.

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 is a detailed and comprehensive analysis for global DOT5.1 Brake Fluid market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global DOT5.1 Brake Fluid market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global DOT5.1 Brake Fluid market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global DOT5.1 Brake Fluid market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global DOT5.1 Brake Fluid market shares of main players, shipments in revenue (\$

Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for DOT5.1 Brake Fluid

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global DOT5.1 Brake Fluid market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

DOT5.1 Brake Fluid market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Hydraulic Fluid Based on Water

Silicone-based Fluid

Market segment by Performance

Standard

High-Performance

Market segment by Boiling Point

Dry Boiling Point

Wet Boiling Point

Market segment by Application

Passenger Car

Racing

Motorcycle

Others

Major players covered

Mobil

BASF

Shell

FUCHS

BP

BOSCH

Idemitsu

TotalEnergies

United Oil

Delphi

Sinopec

Lopal Tech

Sanvo

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe DOT5.1 Brake Fluid product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of DOT5.1 Brake Fluid, with price, sales quantity, revenue, and global market share of DOT5.1 Brake Fluid from 2021 to 2026.

Chapter 3, the DOT5.1 Brake Fluid competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the DOT5.1 Brake Fluid breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and DOT5.1 Brake Fluid market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of DOT5.1 Brake Fluid.

Chapter 14 and 15, to describe DOT5.1 Brake Fluid sales channel, distributors, customers, research findings and conclusion.

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