

Global Bio-based Fluorine-free Water Repellent Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G9265AD17BD7EN.html>

Date: June 2026

Pages: 116

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

ID: G9265AD17BD7EN

Abstracts

According to our (Global Info Research) latest study, the global Bio-based Fluorine-free Water Repellent market size was valued at US\$ 208 million in 2025 and is forecast to a readjusted size of US\$ 386 million by 2032 with a CAGR of 9.4% during review period.

Bio-based fluorine-free water repellent agents refer to waterborne emulsions, polymer dispersions or formulated finishing auxiliaries that use plant-derived materials, natural waxes, bio-based polymers, bio-based polyurethane, renewable carbon sources, natural-origin functional components or silicone-organic hybrid systems as key hydrophobic building blocks, without intentionally introducing PFAS, PFCs or organofluorine chemistry. The scope focuses on commercial products applied to textiles, nonwovens, footwear materials, leather, home textiles and technical fabrics through padding, exhaustion, coating, spraying, curing or reproofing processes, with the purpose of providing durable water repellency, rain protection, resistance to water-based stains, wash durability, acceptable hand feel, breathability and compliance with evolving textile sustainability requirements.

In 2025, global Bio-based Fluorine-free Water Repellent production reached 28 k tons, with an average selling price of \$7,205 per ton and a total production capacity of approximately 35 k tons. The industry's gross profit margin for this product stands at approximately 35%–45%. Regarding the cost structure: direct materials account for approximately 60%–70%, manufacturing overhead for 18%–25%, and labor costs for 6%–10%. In terms of the industry value chain: upstream inputs include bio-based monomers/polyols, plant/natural waxes, plant oil derivatives, silicone intermediates, polyurethane/acrylic emulsions, and various additives; the downstream sector consists primarily of the textile industry.

Based on our research, bio-based fluorine-free water repellent agents should be viewed as a performance-driven substitution category rather than a simple environmental label. The product has to meet several requirements at the same time: PFAS-free chemistry, renewable or plant-derived content, durable water repellency, acceptable hand feel, wash resistance, process stability and compatibility with textile certification systems. The global supply structure is therefore clearly tiered. The first tier consists of multinational specialty chemical companies with established textile finishing portfolios, global technical service capabilities and the ability to support brand nomination. The second tier includes focused textile auxiliary suppliers in Europe, Japan, India and China that are building differentiated fluorine-free and bio-based platforms. The third tier includes regional CO water repellent suppliers, professional reproofing brands and R&D-driven projects.

From the demand side, growth is being led by outdoor apparel, sportswear, workwear, technical textiles, footwear, home textiles and professional aftercare applications. Regulatory pressure on PFAS, brand sustainability requirements, textile eco-certification and consumer preference for lower-impact materials are turning fluorine-free solutions from optional alternatives into supply-chain qualification tools. However, the category still faces practical barriers.

This report is a detailed and comprehensive analysis for global Bio-based Fluorine-free Water Repellent 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 Bio-based Fluorine-free Water Repellent market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based Fluorine-free Water Repellent market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based Fluorine-free Water Repellent market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based Fluorine-free Water Repellent market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Bio-based Fluorine-free Water Repellent

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 Bio-based Fluorine-free Water Repellent 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 Archroma, Rudolf GmbH, Guangzhou Dymatic, Daikin Industries, Dow, NICCA Chemical, Zhejiang Transfar Chemicals, Tanatex Chemicals, CHT Group, Pulcra Chemicals, etc.

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

Market Segmentation

Bio-based Fluorine-free Water Repellent 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

Polyacrylate Type

Silicone Type

Polyurethane Type

Others

Market segment by Bio-based Content

Bio-based Content

Bio-based Content ? 60%

Bio-based Content ? 80%

Market segment by Application

Outdoor Apparel

Home Textiles

Casual Wear

Footwear Materials

Others

Major players covered

Archroma

Rudolf GmbH

Guangzhou Dymatic

Daikin Industries

Dow

NICCA Chemical

Zhejiang Transfar Chemicals

Tanatex Chemicals

CHT Group

Pulcra Chemicals

Sarex Chemicals

HeiQ Materials

Fibrochem Advanced Materials

Beijing CTA-TEX CHEMICALS

Ruiying (Fujian) New Materials

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 Bio-based Fluorine-free Water Repellent product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bio-based Fluorine-free Water Repellent, with price, sales quantity, revenue, and global market share of Bio-based Fluorine-free Water Repellent from 2021 to 2026.

Chapter 3, the Bio-based Fluorine-free Water Repellent competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bio-based Fluorine-free Water Repellent 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 Bio-based Fluorine-free Water Repellent 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 Bio-based Fluorine-free Water Repellent.

Chapter 14 and 15, to describe Bio-based Fluorine-free Water Repellent sales channel, distributors, customers, research findings and conclusion.

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