

Global Phosphoric Acid Etching Gel and Bonding Agent Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G97A08715DF4EN.html>

Date: January 2026

Pages: 136

Price: US\$ 4,480.00 (Single User License)

ID: G97A08715DF4EN

Abstracts

The global Phosphoric Acid Etching Gel and Bonding Agent market size is expected to reach \$ 203 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Phosphate etching gel and adhesive are commonly used dental materials in dental restorations and orthodontic treatment. Phosphate etching gel is primarily used to micro-etch the enamel or dentin surface, removing surface debris and creating a microscopic rough structure to improve the surface energy and mechanical retention of the tooth. The adhesive, applied between the tooth and the restorative material after etching, acts as a penetrator, wetting agent, and chemical/mechanical bond, ensuring a firm bond between the resin, bracket, or restoration to the tooth surface. The combined use of these two materials is crucial for achieving reliable and durable bonding in dental restorations and orthodontic treatment.

Phosphate etching gels and adhesives are primarily used in oral restoration and orthodontic treatment, belonging to the category of dental consumables. Their industry chain can be summarized as follows: Upstream is the raw material and basic chemical process, mainly including high-purity phosphoric acid, thickeners (such as silica and polymers), functional monomers (such as methacrylates), solvents, initiators, and packaging materials; Midstream is the dental material manufacturing process, where companies produce phosphate etching gels of different concentrations and applicable types, as well as general-purpose or self-etching dental adhesives, through formulation design, mixing reactions, vacuum degassing, aseptic filling, and quality control; Downstream is the sales and application stage, where products enter dental hospitals, dental clinics, and prosthesis processing institutions through dental instrument and consumable distributors, ultimately being used in clinical scenarios such as resin

restorations, veneers, inlays, and orthodontic bracket bonding. The industry chain as a whole exhibits high technological barriers and a gradually increasing brand concentration.

In 2025, the average price of phosphate etching gels and adhesives was \$11 per unit, with sales volume of 11.82 million units, production capacity of 16.41 million units, and a gross profit margin of approximately 53%.

This report studies the global Phosphoric Acid Etching Gel and Bonding Agent production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Phosphoric Acid Etching Gel and Bonding Agent 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 Phosphoric Acid Etching Gel and Bonding Agent that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Phosphoric Acid Etching Gel and Bonding Agent total production and demand, 2021-2032, (K Units)

Global Phosphoric Acid Etching Gel and Bonding Agent total production value, 2021-2032, (USD Million)

Global Phosphoric Acid Etching Gel and Bonding Agent production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Phosphoric Acid Etching Gel and Bonding Agent consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Phosphoric Acid Etching Gel and Bonding Agent domestic production, consumption, key domestic manufacturers and share

Global Phosphoric Acid Etching Gel and Bonding Agent production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Phosphoric Acid Etching Gel and Bonding Agent production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Phosphoric Acid Etching Gel and Bonding Agent production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Phosphoric Acid Etching Gel and Bonding Agent 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 3M, Ivoclar, Kerr Dental, Ultradent, BISCO, Dentsply Sirona, GC, Kuraray Noritake Dental, Tokuyama Dental, Shofu, 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 Phosphoric Acid Etching Gel and Bonding Agent market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Phosphoric Acid Etching Gel and Bonding Agent Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Phosphoric Acid Etching Gel and Bonding Agent Market, Segmentation by Type:

High-Concentration Phosphate Etching Gel

Mild Phosphate Etching Gel

Global Phosphoric Acid Etching Gel and Bonding Agent Market, Segmentation by Material:

Enamel Etching Gel

Dentin Etching Gel

Global Phosphoric Acid Etching Gel and Bonding Agent Market, Segmentation by Usage Step:

Pre-Processed Type

Self-Etching Type

Others

Global Phosphoric Acid Etching Gel and Bonding Agent Market, Segmentation by Application:

Hospital

Clinic

Laboratory

Others

Companies Profiled:

3M

Ivoclar

Kerr Dental

Ultradent

BISCO

Dentsply Sirona

GC

Kuraray Noritake Dental

Tokuyama Dental

Shofu

COLTENE

VOCO

Septodont

SDI

Kulzer

DMG

Pulpdent

Prime Dental Manufacturing

Pentron

Huge Dental Material

Key Questions Answered:

1. How big is the global Phosphoric Acid Etching Gel and Bonding Agent market?
2. What is the demand of the global Phosphoric Acid Etching Gel and Bonding Agent market?
3. What is the year over year growth of the global Phosphoric Acid Etching Gel and Bonding Agent market?
4. What is the production and production value of the global Phosphoric Acid Etching Gel and Bonding Agent market?
5. Who are the key producers in the global Phosphoric Acid Etching Gel and Bonding Agent market?
6. What are the growth factors driving the market demand?

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