

Global Photo Base Generator (PBG) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Photo Base Generator (PBG) market size is expected to reach \$ 52.40 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Photo base generators are photo-functional chemicals that release basic active species such as amines, amidines, guanidines, and imidazoles through photolysis, decarboxylation, rearrangement, or protecting-group cleavage under exposure to ultraviolet light, visible light, electron beams, or other forms of energy. They are mainly used to convert optical signals into controllable base-catalyzed reactions. Their core function is to remain latent during formulation storage and rapidly generate bases in exposed areas, thereby initiating or promoting anionic curing of epoxy resins, epoxy-thiol reactions, sol-gel reactions, imidization of polyimide precursors, dissolution control in photoresist development, and fine pattern formation. Compared with photoacid generators and free-radical photoinitiators, photo base generators place greater emphasis on low corrosion, delayed curing, resistance to oxygen inhibition, storage stability, and wavelength matching in metal wiring, electronic packaging, display panels, coatings, inks, adhesives, sealants, 3D printing resins, and optical components. Product design usually focuses on released base species, absorption wavelength, quantum efficiency, resin solubility, thermal stability, post-bake reaction window, and impurity control. They can be used as standalone initiators or combined with sensitizers, base amplifiers, epoxy monomers, thiol monomers, or inorganic precursors to form complete formulation systems. Commercial delivery usually includes gram-scale reagents, small-batch samples, kilogram-scale custom synthesis, and electronic-grade material supply, serving customers such as photoresist manufacturers, display material producers, packaging material companies, UV-curable formulation companies, universities, and corporate R&D laboratories.

The technical value of photo base generators lies in their spatial and temporal control of base-catalyzed reactions. Conventional thermal curing or ordinary amine-catalyzed systems usually begin reacting immediately after mixing, which can limit storage stability, processing windows, and pattern resolution. Photo base generators temporarily cage strong or weak bases in latent structures and release active bases after exposure, allowing curing, crosslinking, sol-gel reactions, or dissolution control to occur only in designated areas and at designated times. Compared with free-radical curing, this mechanism is less dependent on oxygen exclusion; compared with strong-acid photoinitiation systems, it can reduce metal corrosion and acid residue risks. As a result, it is particularly suitable for precision electronic materials, optical materials, and low-defect, high-reliability formulations. Product development is not only about improving base-generation efficiency, but also about matching absorption wavelength with exposure light sources, released base species with resin reactivity, solubility with formulation systems, and thermal stability with storage life. With the growth of UV LED light sources, low-temperature packaging, flexible displays, and high-resolution patterning, photo base generators are evolving from laboratory reagents into key additives that support photocurable materials moving toward lower thermal budgets, lower corrosion, and higher selectivity.

Downstream demand for photo base generators mainly comes from display panels, semiconductor packaging, electronic photolithography materials, UV-curable coatings and inks, adhesive and sealant materials, and functional resin systems. Color photoresists, black matrix photoresists, and protective layer materials in display panels require initiators with high sensitivity, low yellowing, and a favorable development window. Semiconductor packaging materials place greater emphasis on low ionic contamination, low corrosion, low-temperature curing, and compatibility with epoxy systems. Coatings, inks, adhesives, and sealants focus on curing speed, weather resistance, adhesion, and application windows, while R&D scenarios also use these materials for visible-light curing, reversible depolymerization, base-triggered polymerization, and micro-nano patterning. Because the same molecular structure may serve multiple formulation systems, competition is not determined simply by product count, but by absorption wavelength, released base strength, solubility, post-bake window, purity control, and customer formulation validation capabilities. For customers, purchasing decisions are usually not made on chemical price alone, but on formulation success rate, batch consistency, regulatory compliance, supply stability, and technical support.

From the supply perspective, photo base generators remain functional chemicals

characterized by small batch sizes, high technical density, and long application validation cycles. Publicly verifiable commercial supply is mainly concentrated in Japan and China, while South Korea, Europe, and the United States are more visible as downstream demand centers, research bases, and formulation application markets. Japanese suppliers are more mature in research reagents, specialized grades, and publicly available technical information, while Chinese suppliers are building industrialization capacity through the display panel, photoresist, electronic packaging, and photocurable materials supply chains. Future growth is expected from three areas. First, display and packaging materials will continue to upgrade toward higher sensitivity, lower yellowing, and fewer defects. Second, UV LED and low-temperature rapid curing processes will broaden the application boundaries of base-triggered systems. Third, local electronic chemical suppliers are likely to increase their share as validation progresses among display, PCB, and advanced packaging customers. Given the limited public disclosure of market size, industry research should estimate scale through downstream formulation consumption, customer validation projects, and electronic-grade supply capacity, with separate assumptions for research reagents, small-batch pilot materials, and scaled electronic materials.

This report studies the global Photo Base Generator (PBG) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photo Base Generator (PBG) 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 Photo Base Generator (PBG) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Photo Base Generator (PBG) total production and demand, 2021-2032, (kg)

Global Photo Base Generator (PBG) total production value, 2021-2032, (USD Million)

Global Photo Base Generator (PBG) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Photo Base Generator (PBG) consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Photo Base Generator (PBG) domestic production, consumption, key domestic manufacturers and share

Global Photo Base Generator (PBG) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Photo Base Generator (PBG) production by Chemical Structure, production,

value, CAGR, 2021-2032, (USD Million) & (kg)

Global Photo Base Generator (PBG) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Photo Base Generator (PBG) 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 FUJIFILM Wako Pure Chemical Corporation, Tokyo Chemical Industry Co., Ltd., Changzhou Tronly New Electronic Materials Co., Ltd., 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 Photo Base Generator (PBG) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) by manufacturer, by Chemical Structure, 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 Photo Base Generator (PBG) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photo Base Generator (PBG) Market, Segmentation by Chemical Structure:

Ionic Structure

Non-Ionic Structure

Global Photo Base Generator (PBG) Market, Segmentation by Released Base Species:

Guanidine

Amidine

Aliphatic Amine

Imidazole

Global Photo Base Generator (PBG) Market, Segmentation by Exposure Wavelength:

Deep Ultraviolet

Near Ultraviolet Light

Long-Wavelength Ultraviolet Light

Visible Light

Global Photo Base Generator (PBG) Market, Segmentation by Application:

Electronic Photolithography

Display Panel

Electronic Packaging

Coating and Ink

Adhesive and Sealant

Other

Companies Profiled:

FUJIFILM Wako Pure Chemical Corporation

Tokyo Chemical Industry Co., Ltd.

Changzhou Tronly New Electronic Materials Co., Ltd.

Key Questions Answered:

1. How big is the global Photo Base Generator (PBG) market?
2. What is the demand of the global Photo Base Generator (PBG) market?
3. What is the year over year growth of the global Photo Base Generator (PBG) market?
4. What is the production and production value of the global Photo Base Generator (PBG) market?
5. Who are the key producers in the global Photo Base Generator (PBG) market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Photo Base Generator (PBG) Introduction
- 1.2 World Photo Base Generator (PBG) Supply & Forecast
 - 1.2.1 World Photo Base Generator (PBG) Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Photo Base Generator (PBG) Production (2021-2032)
 - 1.2.3 World Photo Base Generator (PBG) Pricing Trends (2021-2032)
- 1.3 World Photo Base Generator (PBG) Production by Region (Based on Production Site)
 - 1.3.1 World Photo Base Generator (PBG) Production Value by Region (2021-2032)
 - 1.3.2 World Photo Base Generator (PBG) Production by Region (2021-2032)
 - 1.3.3 World Photo Base Generator (PBG) Average Price by Region (2021-2032)
 - 1.3.4 North America Photo Base Generator (PBG) Production (2021-2032)
 - 1.3.5 Europe Photo Base Generator (PBG) Production (2021-2032)
 - 1.3.6 China Photo Base Generator (PBG) Production (2021-2032)
 - 1.3.7 Japan Photo Base Generator (PBG) Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Photo Base Generator (PBG) Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Photo Base Generator (PBG) Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Photo Base Generator (PBG) Demand (2021-2032)
- 2.2 World Photo Base Generator (PBG) Consumption by Region
 - 2.2.1 World Photo Base Generator (PBG) Consumption by Region (2021-2026)
 - 2.2.2 World Photo Base Generator (PBG) Consumption Forecast by Region (2027-2032)
- 2.3 United States Photo Base Generator (PBG) Consumption (2021-2032)
- 2.4 China Photo Base Generator (PBG) Consumption (2021-2032)
- 2.5 Europe Photo Base Generator (PBG) Consumption (2021-2032)
- 2.6 Japan Photo Base Generator (PBG) Consumption (2021-2032)
- 2.7 South Korea Photo Base Generator (PBG) Consumption (2021-2032)
- 2.8 ASEAN Photo Base Generator (PBG) Consumption (2021-2032)
- 2.9 India Photo Base Generator (PBG) Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Photo Base Generator (PBG) Production Value by Manufacturer (2021-2026)
- 3.2 World Photo Base Generator (PBG) Production by Manufacturer (2021-2026)
- 3.3 World Photo Base Generator (PBG) Average Price by Manufacturer (2021-2026)
- 3.4 Photo Base Generator (PBG) Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Photo Base Generator (PBG) Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Photo Base Generator (PBG) in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Photo Base Generator (PBG) in 2025
- 3.6 Photo Base Generator (PBG) Market: Overall Company Footprint Analysis
 - 3.6.1 Photo Base Generator (PBG) Market: Region Footprint
 - 3.6.2 Photo Base Generator (PBG) Market: Company Product Type Footprint
 - 3.6.3 Photo Base Generator (PBG) Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Photo Base Generator (PBG) Production Value Comparison
 - 4.1.1 United States VS China: Photo Base Generator (PBG) Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Photo Base Generator (PBG) Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Photo Base Generator (PBG) Production Comparison
 - 4.2.1 United States VS China: Photo Base Generator (PBG) Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Photo Base Generator (PBG) Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Photo Base Generator (PBG) Consumption Comparison
 - 4.3.1 United States VS China: Photo Base Generator (PBG) Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Photo Base Generator (PBG) Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Photo Base Generator (PBG) Manufacturers and Market

Share, 2021-2026

4.4.1 United States Based Photo Base Generator (PBG) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Photo Base Generator (PBG) Production Value (2021-2026)

4.4.3 United States Based Manufacturers Photo Base Generator (PBG) Production (2021-2026)

4.5 China Based Photo Base Generator (PBG) Manufacturers and Market Share

4.5.1 China Based Photo Base Generator (PBG) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Photo Base Generator (PBG) Production Value (2021-2026)

4.5.3 China Based Manufacturers Photo Base Generator (PBG) Production (2021-2026)

4.6 Rest of World Based Photo Base Generator (PBG) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Photo Base Generator (PBG) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Photo Base Generator (PBG) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Photo Base Generator (PBG) Production (2021-2026)

5 MARKET ANALYSIS BY CHEMICAL STRUCTURE

5.1 World Photo Base Generator (PBG) Market Size Overview by Chemical Structure: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Chemical Structure

5.2.1 Ionic Structure

5.2.2 Non-Ionic Structure

5.3 Market Segment by Chemical Structure

5.3.1 World Photo Base Generator (PBG) Production by Chemical Structure (2021-2032)

5.3.2 World Photo Base Generator (PBG) Production Value by Chemical Structure (2021-2032)

5.3.3 World Photo Base Generator (PBG) Average Price by Chemical Structure (2021-2032)

6 MARKET ANALYSIS BY RELEASED BASE SPECIES

6.1 World Photo Base Generator (PBG) Market Size Overview by Released Base Species: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Released Base Species

6.2.1 Guanidine

6.2.2 Amidine

6.2.3 Aliphatic Amine

6.2.4 Imidazole

6.3 Market Segment by Released Base Species

6.3.1 World Photo Base Generator (PBG) Production by Released Base Species (2021-2032)

6.3.2 World Photo Base Generator (PBG) Production Value by Released Base Species (2021-2032)

6.3.3 World Photo Base Generator (PBG) Average Price by Released Base Species (2021-2032)

7 MARKET ANALYSIS BY EXPOSURE WAVELENGTH

7.1 World Photo Base Generator (PBG) Market Size Overview by Exposure Wavelength: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Exposure Wavelength

7.2.1 Deep Ultraviolet

7.2.2 Near Ultraviolet Light

7.2.3 Long-Wavelength Ultraviolet Light

7.2.4 Visible Light

7.3 Market Segment by Exposure Wavelength

7.3.1 World Photo Base Generator (PBG) Production by Exposure Wavelength (2021-2032)

7.3.2 World Photo Base Generator (PBG) Production Value by Exposure Wavelength (2021-2032)

7.3.3 World Photo Base Generator (PBG) Average Price by Exposure Wavelength (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Photo Base Generator (PBG) Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Electronic Photolithography

8.2.2 Display Panel

8.2.3 Electronic Packaging

8.2.4 Coating and Ink

8.2.5 Adhesive and Sealant

8.2.6 Other

8.3 Market Segment by Application

8.3.1 World Photo Base Generator (PBG) Production by Application (2021-2032)

8.3.2 World Photo Base Generator (PBG) Production Value by Application (2021-2032)

8.3.3 World Photo Base Generator (PBG) Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 FUJIFILM Wako Pure Chemical Corporation

9.1.1 FUJIFILM Wako Pure Chemical Corporation Details

9.1.2 FUJIFILM Wako Pure Chemical Corporation Major Business

9.1.3 FUJIFILM Wako Pure Chemical Corporation Photo Base Generator (PBG) Product and Services

9.1.4 FUJIFILM Wako Pure Chemical Corporation Photo Base Generator (PBG) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 FUJIFILM Wako Pure Chemical Corporation Recent Developments/Updates

9.1.6 FUJIFILM Wako Pure Chemical Corporation Competitive Strengths & Weaknesses

9.2 Tokyo Chemical Industry Co., Ltd.

9.2.1 Tokyo Chemical Industry Co., Ltd. Details

9.2.2 Tokyo Chemical Industry Co., Ltd. Major Business

9.2.3 Tokyo Chemical Industry Co., Ltd. Photo Base Generator (PBG) Product and Services

9.2.4 Tokyo Chemical Industry Co., Ltd. Photo Base Generator (PBG) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Tokyo Chemical Industry Co., Ltd. Recent Developments/Updates

9.2.6 Tokyo Chemical Industry Co., Ltd. Competitive Strengths & Weaknesses

9.3 Changzhou Tronly New Electronic Materials Co., Ltd.

9.3.1 Changzhou Tronly New Electronic Materials Co., Ltd. Details

9.3.2 Changzhou Tronly New Electronic Materials Co., Ltd. Major Business

9.3.3 Changzhou Tronly New Electronic Materials Co., Ltd. Photo Base Generator (PBG) Product and Services

9.3.4 Changzhou Tronly New Electronic Materials Co., Ltd. Photo Base Generator (PBG) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Changzhou Tronly New Electronic Materials Co., Ltd. Recent Developments/Updates

9.3.6 Changzhou Tronly New Electronic Materials Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Photo Base Generator (PBG) Industry Chain

10.2 Photo Base Generator (PBG) Upstream Analysis

10.2.1 Photo Base Generator (PBG) Core Raw Materials

10.2.2 Main Manufacturers of Photo Base Generator (PBG) Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Photo Base Generator (PBG) Production Mode

10.6 Photo Base Generator (PBG) Procurement Model

10.7 Photo Base Generator (PBG) Industry Sales Model and Sales Channels

10.7.1 Photo Base Generator (PBG) Sales Model

10.7.2 Photo Base Generator (PBG) Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Photo Base Generator (PBG) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Photo Base Generator (PBG) Production Value by Region (2021-2026) & (USD Million)

Table 3. World Photo Base Generator (PBG) Production Value by Region (2027-2032) & (USD Million)

Table 4. World Photo Base Generator (PBG) Production Value Market Share by Region (2021-2026)

Table 5. World Photo Base Generator (PBG) Production Value Market Share by Region (2027-2032)

Table 6. World Photo Base Generator (PBG) Production by Region (2021-2026) & (kg)

Table 7. World Photo Base Generator (PBG) Production by Region (2027-2032) & (kg)

Table 8. World Photo Base Generator (PBG) Production Market Share by Region (2021-2026)

Table 9. World Photo Base Generator (PBG) Production Market Share by Region (2027-2032)

Table 10. World Photo Base Generator (PBG) Average Price by Region (2021-2026) & (US\$/kg)

Table 11. World Photo Base Generator (PBG) Average Price by Region (2027-2032) & (US\$/kg)

Table 12. Photo Base Generator (PBG) Major Market Trends

Table 13. World Photo Base Generator (PBG) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (kg)

Table 14. World Photo Base Generator (PBG) Consumption by Region (2021-2026) & (kg)

Table 15. World Photo Base Generator (PBG) Consumption Forecast by Region (2027-2032) & (kg)

Table 16. World Photo Base Generator (PBG) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Photo Base Generator (PBG) Producers in 2025

Table 18. World Photo Base Generator (PBG) Production by Manufacturer (2021-2026) & (kg)

Table 19. Production Market Share of Key Photo Base Generator (PBG) Producers in 2025

Table 20. World Photo Base Generator (PBG) Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global Photo Base Generator (PBG) Company Evaluation Quadrant

Table 22. World Photo Base Generator (PBG) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Photo Base Generator (PBG) Production Site of Key Manufacturer

Table 24. Photo Base Generator (PBG) Market: Company Product Type Footprint

Table 25. Photo Base Generator (PBG) Market: Company Product Application Footprint

Table 26. Photo Base Generator (PBG) Competitive Factors

Table 27. Photo Base Generator (PBG) New Entrant and Capacity Expansion Plans

Table 28. Photo Base Generator (PBG) Mergers & Acquisitions Activity

Table 29. United States VS China Photo Base Generator (PBG) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Photo Base Generator (PBG) Production Comparison, (2021 & 2025 & 2032) & (kg)

Table 31. United States VS China Photo Base Generator (PBG) Consumption Comparison, (2021 & 2025 & 2032) & (kg)

Table 32. United States Based Photo Base Generator (PBG) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Photo Base Generator (PBG) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Photo Base Generator (PBG) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Photo Base Generator (PBG) Production (2021-2026) & (kg)

Table 36. United States Based Manufacturers Photo Base Generator (PBG) Production Market Share (2021-2026)

Table 37. China Based Photo Base Generator (PBG) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Photo Base Generator (PBG) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Photo Base Generator (PBG) Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Photo Base Generator (PBG) Production, (2021-2026) & (kg)

Table 41. China Based Manufacturers Photo Base Generator (PBG) Production Market Share (2021-2026)

Table 42. Rest of World Based Photo Base Generator (PBG) Manufacturers,

Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Photo Base Generator (PBG) Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Photo Base Generator (PBG) Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Photo Base Generator (PBG) Production, (2021-2026) & (kg)

Table 46. Rest of World Based Manufacturers Photo Base Generator (PBG) Production Market Share (2021-2026)

Table 47. World Photo Base Generator (PBG) Production Value by Chemical Structure, (USD Million), 2021 & 2025 & 2032

Table 48. World Photo Base Generator (PBG) Production by Chemical Structure (2021-2026) & (kg)

Table 49. World Photo Base Generator (PBG) Production by Chemical Structure (2027-2032) & (kg)

Table 50. World Photo Base Generator (PBG) Production Value by Chemical Structure (2021-2026) & (USD Million)

Table 51. World Photo Base Generator (PBG) Production Value by Chemical Structure (2027-2032) & (USD Million)

Table 52. World Photo Base Generator (PBG) Average Price by Chemical Structure (2021-2026) & (US\$/kg)

Table 53. World Photo Base Generator (PBG) Average Price by Chemical Structure (2027-2032) & (US\$/kg)

Table 54. World Photo Base Generator (PBG) Production Value by Released Base Species, (USD Million), 2021 & 2025 & 2032

Table 55. World Photo Base Generator (PBG) Production by Released Base Species (2021-2026) & (kg)

Table 56. World Photo Base Generator (PBG) Production by Released Base Species (2027-2032) & (kg)

Table 57. World Photo Base Generator (PBG) Production Value by Released Base Species (2021-2026) & (USD Million)

Table 58. World Photo Base Generator (PBG) Production Value by Released Base Species (2027-2032) & (USD Million)

Table 59. World Photo Base Generator (PBG) Average Price by Released Base Species (2021-2026) & (US\$/kg)

Table 60. World Photo Base Generator (PBG) Average Price by Released Base Species (2027-2032) & (US\$/kg)

Table 61. World Photo Base Generator (PBG) Production Value by Exposure Wavelength, (USD Million), 2021 & 2025 & 2032

Table 62. World Photo Base Generator (PBG) Production by Exposure Wavelength (2021-2026) & (kg)

Table 63. World Photo Base Generator (PBG) Production by Exposure Wavelength (2027-2032) & (kg)

Table 64. World Photo Base Generator (PBG) Production Value by Exposure Wavelength (2021-2026) & (USD Million)

Table 65. World Photo Base Generator (PBG) Production Value by Exposure Wavelength (2027-2032) & (USD Million)

Table 66. World Photo Base Generator (PBG) Average Price by Exposure Wavelength (2021-2026) & (US\$/kg)

Table 67. World Photo Base Generator (PBG) Average Price by Exposure Wavelength (2027-2032) & (US\$/kg)

Table 68. World Photo Base Generator (PBG) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Photo Base Generator (PBG) Production by Application (2021-2026) & (kg)

Table 70. World Photo Base Generator (PBG) Production by Application (2027-2032) & (kg)

Table 71. World Photo Base Generator (PBG) Production Value by Application (2021-2026) & (USD Million)

Table 72. World Photo Base Generator (PBG) Production Value by Application (2027-2032) & (USD Million)

Table 73. World Photo Base Generator (PBG) Average Price by Application (2021-2026) & (US\$/kg)

Table 74. World Photo Base Generator (PBG) Average Price by Application (2027-2032) & (US\$/kg)

Table 75. FUJIFILM Wako Pure Chemical Corporation Basic Information, Manufacturing Base and Competitors

Table 76. FUJIFILM Wako Pure Chemical Corporation Major Business

Table 77. FUJIFILM Wako Pure Chemical Corporation Photo Base Generator (PBG) Product and Services

Table 78. FUJIFILM Wako Pure Chemical Corporation Photo Base Generator (PBG) Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. FUJIFILM Wako Pure Chemical Corporation Recent Developments/Updates

Table 80. FUJIFILM Wako Pure Chemical Corporation Competitive Strengths & Weaknesses

Table 81. Tokyo Chemical Industry Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 82. Tokyo Chemical Industry Co., Ltd. Major Business

Table 83. Tokyo Chemical Industry Co., Ltd. Photo Base Generator (PBG) Product and Services

Table 84. Tokyo Chemical Industry Co., Ltd. Photo Base Generator (PBG) Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Tokyo Chemical Industry Co., Ltd. Recent Developments/Updates

Table 86. Tokyo Chemical Industry Co., Ltd. Competitive Strengths & Weaknesses

Table 87. Changzhou Tronly New Electronic Materials Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 88. Changzhou Tronly New Electronic Materials Co., Ltd. Major Business

Table 89. Changzhou Tronly New Electronic Materials Co., Ltd. Photo Base Generator (PBG) Product and Services

Table 90. Changzhou Tronly New Electronic Materials Co., Ltd. Photo Base Generator (PBG) Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Changzhou Tronly New Electronic Materials Co., Ltd. Recent Developments/Updates

Table 92. Changzhou Tronly New Electronic Materials Co., Ltd. Competitive Strengths & Weaknesses

Table 93. Global Key Players of Photo Base Generator (PBG) Upstream (Raw Materials)

Table 94. Global Photo Base Generator (PBG) Typical Customers

Table 95. Photo Base Generator (PBG) Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Photo Base Generator (PBG) Picture

Figure 2. World Photo Base Generator (PBG) Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Photo Base Generator (PBG) Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Photo Base Generator (PBG) Production (2021-2032) & (kg)

Figure 5. World Photo Base Generator (PBG) Average Price (2021-2032) & (US\$/kg)

Figure 6. World Photo Base Generator (PBG) Production Value Market Share by Region (2021-2032)

Figure 7. World Photo Base Generator (PBG) Production Market Share by Region (2021-2032)

Figure 8. North America Photo Base Generator (PBG) Production (2021-2032) & (kg)

Figure 9. Europe Photo Base Generator (PBG) Production (2021-2032) & (kg)

Figure 10. China Photo Base Generator (PBG) Production (2021-2032) & (kg)

Figure 11. Japan Photo Base Generator (PBG) Production (2021-2032) & (kg)

Figure 12. Photo Base Generator (PBG) Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Photo Base Generator (PBG) Consumption (2021-2032) & (kg)

Figure 15. World Photo Base Generator (PBG) Consumption Market Share by Region (2021-2032)

Figure 16. United States Photo Base Generator (PBG) Consumption (2021-2032) & (kg)

Figure 17. China Photo Base Generator (PBG) Consumption (2021-2032) & (kg)

Figure 18. Europe Photo Base Generator (PBG) Consumption (2021-2032) & (kg)

Figure 19. Japan Photo Base Generator (PBG) Consumption (2021-2032) & (kg)

Figure 20. South Korea Photo Base Generator (PBG) Consumption (2021-2032) & (kg)

Figure 21. ASEAN Photo Base Generator (PBG) Consumption (2021-2032) & (kg)

Figure 22. India Photo Base Generator (PBG) Consumption (2021-2032) & (kg)

Figure 23. Producer Shipments of Photo Base Generator (PBG) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Photo Base Generator (PBG) Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Photo Base Generator (PBG) Markets in 2025

Figure 26. United States VS China: Photo Base Generator (PBG) Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Photo Base Generator (PBG) Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Photo Base Generator (PBG) Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Photo Base Generator (PBG) Production Market Share 2025

Figure 30. China Based Manufacturers Photo Base Generator (PBG) Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Photo Base Generator (PBG) Production Market Share 2025

Figure 32. World Photo Base Generator (PBG) Production Value by Chemical Structure, (USD Million), 2021 & 2025 & 2032

Figure 33. World Photo Base Generator (PBG) Production Value Market Share by Chemical Structure in 2025

Figure 34. Ionic Structure

Figure 35. Non-Ionic Structure

Figure 36. World Photo Base Generator (PBG) Production Market Share by Chemical Structure (2021-2032)

Figure 37. World Photo Base Generator (PBG) Production Value Market Share by Chemical Structure (2021-2032)

Figure 38. World Photo Base Generator (PBG) Average Price by Chemical Structure (2021-2032) & (US\$/kg)

Figure 39. World Photo Base Generator (PBG) Production Value by Released Base Species, (USD Million), 2021 & 2025 & 2032

Figure 40. World Photo Base Generator (PBG) Production Value Market Share by Released Base Species in 2025

Figure 41. Guanidine

Figure 42. Amidine

Figure 43. Aliphatic Amine

Figure 44. Imidazole

Figure 45. World Photo Base Generator (PBG) Production Market Share by Released Base Species (2021-2032)

Figure 46. World Photo Base Generator (PBG) Production Value Market Share by Released Base Species (2021-2032)

Figure 47. World Photo Base Generator (PBG) Average Price by Released Base Species (2021-2032) & (US\$/kg)

Figure 48. World Photo Base Generator (PBG) Production Value by Exposure Wavelength, (USD Million), 2021 & 2025 & 2032

Figure 49. World Photo Base Generator (PBG) Production Value Market Share by

Exposure Wavelength in 2025

Figure 50. Deep Ultraviolet

Figure 51. Near Ultraviolet Light

Figure 52. Long-Wavelength Ultraviolet Light

Figure 53. Visible Light

Figure 54. World Photo Base Generator (PBG) Production Market Share by Exposure Wavelength (2021-2032)

Figure 55. World Photo Base Generator (PBG) Production Value Market Share by Exposure Wavelength (2021-2032)

Figure 56. World Photo Base Generator (PBG) Average Price by Exposure Wavelength (2021-2032) & (US\$/kg)

Figure 57. World Photo Base Generator (PBG) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Photo Base Generator (PBG) Production Value Market Share by Application in 2025

Figure 59. Electronic Photolithography

Figure 60. Display Panel

Figure 61. Electronic Packaging

Figure 62. Coating and Ink

Figure 63. Adhesive and Sealant

Figure 64. Other

Figure 65. World Photo Base Generator (PBG) Production Market Share by Application (2021-2032)

Figure 66. World Photo Base Generator (PBG) Production Value Market Share by Application (2021-2032)

Figure 67. World Photo Base Generator (PBG) Average Price by Application (2021-2032) & (US\$/kg)

Figure 68. Photo Base Generator (PBG) Industry Chain

Figure 69. Photo Base Generator (PBG) Procurement Model

Figure 70. Photo Base Generator (PBG) Sales Model

Figure 71. Photo Base Generator (PBG) Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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