

Global Phosphogypsum Mine Backfill Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Phosphogypsum Mine Backfill Materials market size is expected to reach \$ 58.94 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

Phosphogypsum mine backfill materials are industrial solid waste utilization materials produced from phosphogypsum generated during wet process phosphoric acid production as the principal solid feedstock. After harmless treatment, performance modification and engineering formulation, these materials are used for backfilling and landform reconstruction in abandoned open pit mines, quarry pits and other former mining sites. The materials mainly consist of calcium sulfate dihydrate and are blended with lime, cement, ground granulated slag, fly ash, solidifying agents, stabilizers and other functional additives according to feedstock impurities, construction conditions and environmental safety requirements. Major product forms include wet bulk backfill, semi dry compacted fill, premixed stabilized mixtures, flowable slurry backfill and high solids paste backfill. Production generally involves dewatering, screening, washing, flotation, neutralization, aging, homogenization, solidification and stabilization, proportioning, mixing and quality inspection. During construction, stable backfill bodies are formed through layered spreading and compaction, slurry pumping or paste filling. Key technical parameters include moisture content, pH, water soluble phosphorus, water soluble fluorine, leachable pollutant concentrations, degree of compaction, dry density, shear strength, permeability, settlement deformation and long term stability. The materials principally provide mine void filling, landform reshaping, backfill stabilization, large scale phosphogypsum utilization and structural support for subsequent soil covering and revegetation. Applications are concentrated in the ecological restoration of abandoned open pits associated with phosphate mines, quarries, metallic mines and nonmetallic mines. Relevant local standards and pollution control specifications are

supporting the transition from project specific formulation toward standardized quality management. In 2025, the global average equivalent ex factory price of phosphogypsum mine backfill materials was approximately USD 6.0 to USD 10 per ton, while the industry average gross margin was approximately 12% to 20%.

The phosphogypsum mine backfill materials value chain is characterized by strong vertical integration and regional concentration. Upstream activities mainly involve phosphogypsum generated by wet process phosphoric acid, phosphate fertilizer and phosphate chemical production, together with supporting materials such as lime, cement, ground granulated slag, fly ash, solidifying agents and stabilizers. Midstream participants undertake feedstock dewatering, impurity removal, neutralization, harmless treatment, stabilization, proportioning, quality testing and on site preparation, with formulations adjusted to the geological, hydrological and environmental risk conditions of each mine pit. Downstream demand primarily comes from abandoned open pit mines, quarry pits, legacy mining sites and mine land reclamation projects. Material supply is commonly coordinated with environmental risk assessment, transportation scheduling, backfilling operations and long term monitoring, so the proportion sold as an independent standardized commodity remains relatively limited.

The global supply structure is distinguished by the emergence of commercial scale applications in China, while overseas markets remain focused mainly on phosphogypsum resources and technical exploration. Chinese regions with concentrated phosphate chemical industries combine stable raw material availability, accessible abandoned mine voids, supportive utilization policies and accumulated project approval experience. This has enabled the development of regional closed loop systems linking phosphogypsum generation, harmless treatment, mine pit backfilling and subsequent ecological restoration. Large phosphate fertilizer producing regions outside China also possess substantial phosphogypsum resources, but differences in radiological management, environmental permitting, suitable mine conditions, transportation radius and utilization standards have prevented the formation of an equally mature commercial production system. Competition therefore depends more heavily on local resource access, project acquisition and environmental compliance capabilities than on interregional trade or conventional brand distribution.

The principal application remains structural backfilling and landform reconstruction in abandoned open pit mines, with quarry rehabilitation, phosphate mine pit restoration and reclamation of other former mining sites representing the main additional demand areas. Basic modified compacted fill remains the largest product form by physical volume. Cement based or slag based stabilized materials are used more frequently in

zones requiring greater strength, lower permeability and improved long term deformation control, while slurry and paste routes are better suited to pumped placement or sites with restricted construction conditions. Technology is evolving from simple neutralization and compaction toward integrated systems combining impurity control, composite solidification, seepage barriers, drainage, leachate treatment and full process monitoring. Product evaluation is consequently expanding beyond short term mechanical strength to include groundwater protection and long term environmental stability.

Policy support and environmental responsibility requirements will remain the main forces driving industry development. National and local authorities are improving standards for harmless phosphogypsum utilization, mine backfilling, environmental risk assessment and full process supervision, making approval requirements and product quality boundaries increasingly explicit. New capital expenditure will be directed primarily toward continuous harmless treatment lines, on site proportioning facilities, seepage control and drainage systems, and digital monitoring platforms. Existing projects will also expand utilization capacity through production line additions and process upgrades. The overall outlook is favorable, although growth will remain constrained by the number of suitable mine pits, transportation distance, additive costs, long term monitoring obligations and public acceptance. Competitive advantages will increasingly concentrate among enterprises with stable feedstock resources, nearby project opportunities, mature formulations and life cycle environmental management capabilities.

Report Scope

This report studies the global Phosphogypsum Mine Backfill Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Phosphogypsum Mine Backfill Materials 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 Phosphogypsum Mine Backfill Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Phosphogypsum Mine Backfill Materials total production and demand,

2021-2032, (Kilotons)

Global Phosphogypsum Mine Backfill Materials total production value,
2021-2032, (USD Million)

Global Phosphogypsum Mine Backfill Materials production by region & country,
production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on
production site)

Global Phosphogypsum Mine Backfill Materials consumption by region &
country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Phosphogypsum Mine Backfill Materials domestic production,
consumption, key domestic manufacturers and share

Global Phosphogypsum Mine Backfill Materials production by manufacturer,
production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Phosphogypsum Mine Backfill Materials production by Type, production,
value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Phosphogypsum Mine Backfill Materials production by Application,
production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Phosphogypsum Mine Backfill Materials 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 Yunnan Yuntianhua Co., Ltd., Yunnan Xiangfeng Industrial Group Co., Ltd., Yonfer Agricultural Technology Co., Ltd., Tianbao Animal Nutrition Technology Co., Ltd., Anhui Liuguo Chemical Co., Ltd., Guizhou Chanhen Chemical Corporation, Guizhou Phosphate Chemical (Group) Co., Ltd., China BlueChemical Ltd., Yunnan Shengwei Chemical 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 Phosphogypsum Mine Backfill Materials 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 Phosphogypsum Mine Backfill Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Phosphogypsum Mine Backfill Materials Market, Segmentation by Type:

Compacted Bulk Backfill

Slurry Backfill

Paste Backfill

Others

Global Phosphogypsum Mine Backfill Materials Market, Segmentation by Treatment Route:

Washing and Flotation Purification

Neutralization Treatment

Solidification and Stabilization

Integrated Harmless Treatment

Others

Global Phosphogypsum Mine Backfill Materials Market, Segmentation by Formulation System:

Low-Binder Modified Phosphogypsum

Cement-Based Stabilized Phosphogypsum

Lime-Based Stabilized Phosphogypsum

Slag and Fly-Ash-Based Composite Binder

Others

Global Phosphogypsum Mine Backfill Materials Market, Segmentation by Application:

Phosphate Mine Pits

Metallic Mine Pits

Construction Material Quarry Pits

Others

Companies Profiled:

Yunnan Yuntianhua Co., Ltd.

Yunnan Xiangfeng Industrial Group Co., Ltd.

Yonfer Agricultural Technology Co., Ltd.

Tianbao Animal Nutrition Technology Co., Ltd.

Anhui Liuguo Chemical Co., Ltd.

Guizhou Chanhen Chemical Corporation

Guizhou Phosphate Chemical (Group) Co., Ltd.

China BlueChemical Ltd.

Yunnan Shengwei Chemical Co., Ltd.

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Phosphogypsum Mine Backfill Materials Introduction
- 1.2 World Phosphogypsum Mine Backfill Materials Supply & Forecast
 - 1.2.1 World Phosphogypsum Mine Backfill Materials Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Phosphogypsum Mine Backfill Materials Production (2021-2032)
 - 1.2.3 World Phosphogypsum Mine Backfill Materials Pricing Trends (2021-2032)
- 1.3 World Phosphogypsum Mine Backfill Materials Production by Region (Based on Production Site)
 - 1.3.1 World Phosphogypsum Mine Backfill Materials Production Value by Region (2021-2032)
 - 1.3.2 World Phosphogypsum Mine Backfill Materials Production by Region (2021-2032)
 - 1.3.3 World Phosphogypsum Mine Backfill Materials Average Price by Region (2021-2032)
 - 1.3.4 China Phosphogypsum Mine Backfill Materials Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Phosphogypsum Mine Backfill Materials Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Phosphogypsum Mine Backfill Materials Major Market Trends

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Phosphogypsum Mine Backfill Materials Production Value by Manufacturer (2021-2026)

3.2 World Phosphogypsum Mine Backfill Materials Production by Manufacturer (2021-2026)

3.3 World Phosphogypsum Mine Backfill Materials Average Price by Manufacturer (2021-2026)

3.4 Phosphogypsum Mine Backfill Materials Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Phosphogypsum Mine Backfill Materials Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Phosphogypsum Mine Backfill Materials in 2025

3.5.3 Global Concentration Ratios (CR8) for Phosphogypsum Mine Backfill Materials in 2025

3.6 Phosphogypsum Mine Backfill Materials Market: Overall Company Footprint Analysis

3.6.1 Phosphogypsum Mine Backfill Materials Market: Region Footprint

3.6.2 Phosphogypsum Mine Backfill Materials Market: Company Product Type Footprint

3.6.3 Phosphogypsum Mine Backfill Materials 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: Phosphogypsum Mine Backfill Materials Production Value Comparison

4.1.1 United States VS China: Phosphogypsum Mine Backfill Materials Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Phosphogypsum Mine Backfill Materials Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Phosphogypsum Mine Backfill Materials Production Comparison

4.2.1 United States VS China: Phosphogypsum Mine Backfill Materials Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Phosphogypsum Mine Backfill Materials Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Phosphogypsum Mine Backfill Materials Consumption Comparison

4.3.1 United States VS China: Phosphogypsum Mine Backfill Materials Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Phosphogypsum Mine Backfill Materials Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Phosphogypsum Mine Backfill Materials Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Phosphogypsum Mine Backfill Materials Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Phosphogypsum Mine Backfill Materials Production Value (2021-2026)

4.4.3 United States Based Manufacturers Phosphogypsum Mine Backfill Materials Production (2021-2026)

4.5 China Based Phosphogypsum Mine Backfill Materials Manufacturers and Market Share

4.5.1 China Based Phosphogypsum Mine Backfill Materials Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Phosphogypsum Mine Backfill Materials Production Value (2021-2026)

4.5.3 China Based Manufacturers Phosphogypsum Mine Backfill Materials Production (2021-2026)

4.6 Rest of World Based Phosphogypsum Mine Backfill Materials Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Phosphogypsum Mine Backfill Materials Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Phosphogypsum Mine Backfill Materials Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Phosphogypsum Mine Backfill Materials Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Phosphogypsum Mine Backfill Materials Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Compacted Bulk Backfill

5.2.2 Slurry Backfill

5.2.3 Paste Backfill

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Phosphogypsum Mine Backfill Materials Production by Type (2021-2032)

5.3.2 World Phosphogypsum Mine Backfill Materials Production Value by Type (2021-2032)

5.3.3 World Phosphogypsum Mine Backfill Materials Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TREATMENT ROUTE

6.1 World Phosphogypsum Mine Backfill Materials Market Size Overview by Treatment Route: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Treatment Route

6.2.1 Washing and Flotation Purification

6.2.2 Neutralization Treatment

6.2.3 Solidification and Stabilization

6.2.4 Integrated Harmless Treatment

6.2.5 Others

6.3 Market Segment by Treatment Route

6.3.1 World Phosphogypsum Mine Backfill Materials Production by Treatment Route (2021-2032)

6.3.2 World Phosphogypsum Mine Backfill Materials Production Value by Treatment Route (2021-2032)

6.3.3 World Phosphogypsum Mine Backfill Materials Average Price by Treatment Route (2021-2032)

7 MARKET ANALYSIS BY FORMULATIO SYSTEM

7.1 World Phosphogypsum Mine Backfill Materials Market Size Overview by Formulatio System: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Formulatio System

7.2.1 Low-Binder Modified Phosphogypsum

7.2.2 Cement-Based Stabilized Phosphogypsum

7.2.3 Lime-Based Stabilized Phosphogypsum

7.2.4 Slag and Fly-Ash-Based Composite Binder

7.2.5 Others

7.3 Market Segment by Formulation System

7.3.1 World Phosphogypsum Mine Backfill Materials Production by Formulation System (2021-2032)

7.3.2 World Phosphogypsum Mine Backfill Materials Production Value by Formulation System (2021-2032)

7.3.3 World Phosphogypsum Mine Backfill Materials Average Price by Formulation System (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Phosphogypsum Mine Backfill Materials Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Phosphate Mine Pits

8.2.2 Metallic Mine Pits

8.2.3 Construction Material Quarry Pits

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Phosphogypsum Mine Backfill Materials Production by Application (2021-2032)

8.3.2 World Phosphogypsum Mine Backfill Materials Production Value by Application (2021-2032)

8.3.3 World Phosphogypsum Mine Backfill Materials Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Yunnan Yuntianhua Co., Ltd.

9.1.1 Yunnan Yuntianhua Co., Ltd. Details

9.1.2 Yunnan Yuntianhua Co., Ltd. Major Business

9.1.3 Yunnan Yuntianhua Co., Ltd. Phosphogypsum Mine Backfill Materials Product and Services

9.1.4 Yunnan Yuntianhua Co., Ltd. Phosphogypsum Mine Backfill Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Yunnan Yuntianhua Co., Ltd. Recent Developments/Updates

9.1.6 Yunnan Yuntianhua Co., Ltd. Competitive Strengths & Weaknesses

9.2 Yunnan Xiangfeng Industrial Group Co., Ltd.

9.2.1 Yunnan Xiangfeng Industrial Group Co., Ltd. Details

9.2.2 Yunnan Xiangfeng Industrial Group Co., Ltd. Major Business

9.2.3 Yunnan Xiangfeng Industrial Group Co., Ltd. Phosphogypsum Mine Backfill

Materials Product and Services

9.2.4 Yunnan Xiangfeng Industrial Group Co., Ltd. Phosphogypsum Mine Backfill

Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Yunnan Xiangfeng Industrial Group Co., Ltd. Recent Developments/Updates

9.2.6 Yunnan Xiangfeng Industrial Group Co., Ltd. Competitive Strengths &

Weaknesses

9.3 Yonfer Agricultural Technology Co., Ltd.

9.3.1 Yonfer Agricultural Technology Co., Ltd. Details

9.3.2 Yonfer Agricultural Technology Co., Ltd. Major Business

9.3.3 Yonfer Agricultural Technology Co., Ltd. Phosphogypsum Mine Backfill Materials

Product and Services

9.3.4 Yonfer Agricultural Technology Co., Ltd. Phosphogypsum Mine Backfill Materials

Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Yonfer Agricultural Technology Co., Ltd. Recent Developments/Updates

9.3.6 Yonfer Agricultural Technology Co., Ltd. Competitive Strengths & Weaknesses

9.4 Tianbao Animal Nutrition Technology Co., Ltd.

9.4.1 Tianbao Animal Nutrition Technology Co., Ltd. Details

9.4.2 Tianbao Animal Nutrition Technology Co., Ltd. Major Business

9.4.3 Tianbao Animal Nutrition Technology Co., Ltd. Phosphogypsum Mine Backfill

Materials Product and Services

9.4.4 Tianbao Animal Nutrition Technology Co., Ltd. Phosphogypsum Mine Backfill

Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Tianbao Animal Nutrition Technology Co., Ltd. Recent Developments/Updates

9.4.6 Tianbao Animal Nutrition Technology Co., Ltd. Competitive Strengths &

Weaknesses

9.5 Anhui Liuguo Chemical Co., Ltd.

9.5.1 Anhui Liuguo Chemical Co., Ltd. Details

9.5.2 Anhui Liuguo Chemical Co., Ltd. Major Business

9.5.3 Anhui Liuguo Chemical Co., Ltd. Phosphogypsum Mine Backfill Materials

Product and Services

9.5.4 Anhui Liuguo Chemical Co., Ltd. Phosphogypsum Mine Backfill Materials

Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Anhui Liuguo Chemical Co., Ltd. Recent Developments/Updates

9.5.6 Anhui Liuguo Chemical Co., Ltd. Competitive Strengths & Weaknesses

9.6 Guizhou Chanhen Chemical Corporation

9.6.1 Guizhou Chanhen Chemical Corporation Details

9.6.2 Guizhou Chanhen Chemical Corporation Major Business

9.6.3 Guizhou Chanhen Chemical Corporation Phosphogypsum Mine Backfill

Materials Product and Services

9.6.4 Guizhou Chanhen Chemical Corporation Phosphogypsum Mine Backfill

Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Guizhou Chanhen Chemical Corporation Recent Developments/Updates

9.6.6 Guizhou Chanhen Chemical Corporation Competitive Strengths & Weaknesses

9.7 Guizhou Phosphate Chemical (Group) Co., Ltd.

9.7.1 Guizhou Phosphate Chemical (Group) Co., Ltd. Details

9.7.2 Guizhou Phosphate Chemical (Group) Co., Ltd. Major Business

9.7.3 Guizhou Phosphate Chemical (Group) Co., Ltd. Phosphogypsum Mine Backfill

Materials Product and Services

9.7.4 Guizhou Phosphate Chemical (Group) Co., Ltd. Phosphogypsum Mine Backfill

Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Guizhou Phosphate Chemical (Group) Co., Ltd. Recent Developments/Updates

9.7.6 Guizhou Phosphate Chemical (Group) Co., Ltd. Competitive Strengths &

Weaknesses

9.8 China BlueChemical Ltd.

9.8.1 China BlueChemical Ltd. Details

9.8.2 China BlueChemical Ltd. Major Business

9.8.3 China BlueChemical Ltd. Phosphogypsum Mine Backfill Materials Product and Services

9.8.4 China BlueChemical Ltd. Phosphogypsum Mine Backfill Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 China BlueChemical Ltd. Recent Developments/Updates

9.8.6 China BlueChemical Ltd. Competitive Strengths & Weaknesses

9.9 Yunnan Shengwei Chemical Co., Ltd.

9.9.1 Yunnan Shengwei Chemical Co., Ltd. Details

9.9.2 Yunnan Shengwei Chemical Co., Ltd. Major Business

9.9.3 Yunnan Shengwei Chemical Co., Ltd. Phosphogypsum Mine Backfill Materials Product and Services

9.9.4 Yunnan Shengwei Chemical Co., Ltd. Phosphogypsum Mine Backfill Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Yunnan Shengwei Chemical Co., Ltd. Recent Developments/Updates

9.9.6 Yunnan Shengwei Chemical Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Phosphogypsum Mine Backfill Materials Industry Chain
- 10.2 Phosphogypsum Mine Backfill Materials Upstream Analysis
 - 10.2.1 Phosphogypsum Mine Backfill Materials Core Raw Materials
 - 10.2.2 Main Manufacturers of Phosphogypsum Mine Backfill Materials Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Phosphogypsum Mine Backfill Materials Production Mode
- 10.6 Phosphogypsum Mine Backfill Materials Procurement Model
- 10.7 Phosphogypsum Mine Backfill Materials Industry Sales Model and Sales Channels
 - 10.7.1 Phosphogypsum Mine Backfill Materials Sales Model
 - 10.7.2 Phosphogypsum Mine Backfill Materials 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 Phosphogypsum Mine Backfill Materials Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Phosphogypsum Mine Backfill Materials Production Value by Region (2021-2026) & (USD Million)

Table 3. World Phosphogypsum Mine Backfill Materials Production Value by Region (2027-2032) & (USD Million)

Table 4. World Phosphogypsum Mine Backfill Materials Production Value Market Share by Region (2021-2026)

Table 5. World Phosphogypsum Mine Backfill Materials Production Value Market Share by Region (2027-2032)

Table 6. World Phosphogypsum Mine Backfill Materials Production by Region (2021-2026) & (Kilotons)

Table 7. World Phosphogypsum Mine Backfill Materials Production by Region (2027-2032) & (Kilotons)

Table 8. World Phosphogypsum Mine Backfill Materials Production Market Share by Region (2021-2026)

Table 9. World Phosphogypsum Mine Backfill Materials Production Market Share by Region (2027-2032)

Table 10. World Phosphogypsum Mine Backfill Materials Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Phosphogypsum Mine Backfill Materials Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Phosphogypsum Mine Backfill Materials Major Market Trends

Table 13. World Phosphogypsum Mine Backfill Materials Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Phosphogypsum Mine Backfill Materials Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Phosphogypsum Mine Backfill Materials Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Phosphogypsum Mine Backfill Materials Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Phosphogypsum Mine Backfill Materials Producers in 2025

Table 18. World Phosphogypsum Mine Backfill Materials Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Phosphogypsum Mine Backfill Materials Producers in 2025

Table 20. World Phosphogypsum Mine Backfill Materials Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Phosphogypsum Mine Backfill Materials Company Evaluation Quadrant

Table 22. World Phosphogypsum Mine Backfill Materials Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Phosphogypsum Mine Backfill Materials Production Site of Key Manufacturer

Table 24. Phosphogypsum Mine Backfill Materials Market: Company Product Type Footprint

Table 25. Phosphogypsum Mine Backfill Materials Market: Company Product Application Footprint

Table 26. Phosphogypsum Mine Backfill Materials Competitive Factors

Table 27. Phosphogypsum Mine Backfill Materials New Entrant and Capacity Expansion Plans

Table 28. Phosphogypsum Mine Backfill Materials Mergers & Acquisitions Activity

Table 29. United States VS China Phosphogypsum Mine Backfill Materials Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Phosphogypsum Mine Backfill Materials Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Phosphogypsum Mine Backfill Materials Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Phosphogypsum Mine Backfill Materials Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Phosphogypsum Mine Backfill Materials Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Phosphogypsum Mine Backfill Materials Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Phosphogypsum Mine Backfill Materials Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Phosphogypsum Mine Backfill Materials Production Market Share (2021-2026)

Table 37. China Based Phosphogypsum Mine Backfill Materials Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Phosphogypsum Mine Backfill Materials Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Phosphogypsum Mine Backfill Materials

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Phosphogypsum Mine Backfill Materials Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Phosphogypsum Mine Backfill Materials Production Market Share (2021-2026)

Table 42. Rest of World Based Phosphogypsum Mine Backfill Materials Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Phosphogypsum Mine Backfill Materials Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Phosphogypsum Mine Backfill Materials Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Phosphogypsum Mine Backfill Materials Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Phosphogypsum Mine Backfill Materials Production Market Share (2021-2026)

Table 47. World Phosphogypsum Mine Backfill Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Phosphogypsum Mine Backfill Materials Production by Type (2021-2026) & (Kilotons)

Table 49. World Phosphogypsum Mine Backfill Materials Production by Type (2027-2032) & (Kilotons)

Table 50. World Phosphogypsum Mine Backfill Materials Production Value by Type (2021-2026) & (USD Million)

Table 51. World Phosphogypsum Mine Backfill Materials Production Value by Type (2027-2032) & (USD Million)

Table 52. World Phosphogypsum Mine Backfill Materials Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Phosphogypsum Mine Backfill Materials Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Phosphogypsum Mine Backfill Materials Production Value by Treatment Route, (USD Million), 2021 & 2025 & 2032

Table 55. World Phosphogypsum Mine Backfill Materials Production by Treatment Route (2021-2026) & (Kilotons)

Table 56. World Phosphogypsum Mine Backfill Materials Production by Treatment Route (2027-2032) & (Kilotons)

Table 57. World Phosphogypsum Mine Backfill Materials Production Value by Treatment Route (2021-2026) & (USD Million)

Table 58. World Phosphogypsum Mine Backfill Materials Production Value by Treatment Route (2027-2032) & (USD Million)

Table 59. World Phosphogypsum Mine Backfill Materials Average Price by Treatment Route (2021-2026) & (US\$/Ton)

Table 60. World Phosphogypsum Mine Backfill Materials Average Price by Treatment Route (2027-2032) & (US\$/Ton)

Table 61. World Phosphogypsum Mine Backfill Materials Production Value by Formulation System, (USD Million), 2021 & 2025 & 2032

Table 62. World Phosphogypsum Mine Backfill Materials Production by Formulation System (2021-2026) & (Kilotons)

Table 63. World Phosphogypsum Mine Backfill Materials Production by Formulation System (2027-2032) & (Kilotons)

Table 64. World Phosphogypsum Mine Backfill Materials Production Value by Formulation System (2021-2026) & (USD Million)

Table 65. World Phosphogypsum Mine Backfill Materials Production Value by Formulation System (2027-2032) & (USD Million)

Table 66. World Phosphogypsum Mine Backfill Materials Average Price by Formulation System (2021-2026) & (US\$/Ton)

Table 67. World Phosphogypsum Mine Backfill Materials Average Price by Formulation System (2027-2032) & (US\$/Ton)

Table 68. World Phosphogypsum Mine Backfill Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Phosphogypsum Mine Backfill Materials Production by Application (2021-2026) & (Kilotons)

Table 70. World Phosphogypsum Mine Backfill Materials Production by Application (2027-2032) & (Kilotons)

Table 71. World Phosphogypsum Mine Backfill Materials Production Value by Application (2021-2026) & (USD Million)

Table 72. World Phosphogypsum Mine Backfill Materials Production Value by Application (2027-2032) & (USD Million)

Table 73. World Phosphogypsum Mine Backfill Materials Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Phosphogypsum Mine Backfill Materials Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Yunnan Yuntianhua Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 76. Yunnan Yuntianhua Co., Ltd. Major Business

Table 77. Yunnan Yuntianhua Co., Ltd. Phosphogypsum Mine Backfill Materials Product and Services

Table 78. Yunnan Yuntianhua Co., Ltd. Phosphogypsum Mine Backfill Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin

and Market Share (2021-2026)

Table 79. Yunnan Yuntianhua Co., Ltd. Recent Developments/Updates

Table 80. Yunnan Yuntianhua Co., Ltd. Competitive Strengths & Weaknesses

Table 81. Yunnan Xiangfeng Industrial Group Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 82. Yunnan Xiangfeng Industrial Group Co., Ltd. Major Business

Table 83. Yunnan Xiangfeng Industrial Group Co., Ltd. Phosphogypsum Mine Backfill Materials Product and Services

Table 84. Yunnan Xiangfeng Industrial Group Co., Ltd. Phosphogypsum Mine Backfill Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Yunnan Xiangfeng Industrial Group Co., Ltd. Recent Developments/Updates

Table 86. Yunnan Xiangfeng Industrial Group Co., Ltd. Competitive Strengths & Weaknesses

Table 87. Yonfer Agricultural Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 88. Yonfer Agricultural Technology Co., Ltd. Major Business

Table 89. Yonfer Agricultural Technology Co., Ltd. Phosphogypsum Mine Backfill Materials Product and Services

Table 90. Yonfer Agricultural Technology Co., Ltd. Phosphogypsum Mine Backfill Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Yonfer Agricultural Technology Co., Ltd. Recent Developments/Updates

Table 92. Yonfer Agricultural Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 93. Tianbao Animal Nutrition Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 94. Tianbao Animal Nutrition Technology Co., Ltd. Major Business

Table 95. Tianbao Animal Nutrition Technology Co., Ltd. Phosphogypsum Mine Backfill Materials Product and Services

Table 96. Tianbao Animal Nutrition Technology Co., Ltd. Phosphogypsum Mine Backfill Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Tianbao Animal Nutrition Technology Co., Ltd. Recent Developments/Updates

Table 98. Tianbao Animal Nutrition Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 99. Anhui Liuguo Chemical Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 100. Anhui Liuguo Chemical Co., Ltd. Major Business

Table 101. Anhui Liuguo Chemical Co., Ltd. Phosphogypsum Mine Backfill Materials Product and Services

Table 102. Anhui Liuguo Chemical Co., Ltd. Phosphogypsum Mine Backfill Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Anhui Liuguo Chemical Co., Ltd. Recent Developments/Updates

Table 104. Anhui Liuguo Chemical Co., Ltd. Competitive Strengths & Weaknesses

Table 105. Guizhou Chanhen Chemical Corporation Basic Information, Manufacturing Base and Competitors

Table 106. Guizhou Chanhen Chemical Corporation Major Business

Table 107. Guizhou Chanhen Chemical Corporation Phosphogypsum Mine Backfill Materials Product and Services

Table 108. Guizhou Chanhen Chemical Corporation Phosphogypsum Mine Backfill Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Guizhou Chanhen Chemical Corporation Recent Developments/Updates

Table 110. Guizhou Chanhen Chemical Corporation Competitive Strengths & Weaknesses

Table 111. Guizhou Phosphate Chemical (Group) Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 112. Guizhou Phosphate Chemical (Group) Co., Ltd. Major Business

Table 113. Guizhou Phosphate Chemical (Group) Co., Ltd. Phosphogypsum Mine Backfill Materials Product and Services

Table 114. Guizhou Phosphate Chemical (Group) Co., Ltd. Phosphogypsum Mine Backfill Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Guizhou Phosphate Chemical (Group) Co., Ltd. Recent Developments/Updates

Table 116. Guizhou Phosphate Chemical (Group) Co., Ltd. Competitive Strengths & Weaknesses

Table 117. China BlueChemical Ltd. Basic Information, Manufacturing Base and Competitors

Table 118. China BlueChemical Ltd. Major Business

Table 119. China BlueChemical Ltd. Phosphogypsum Mine Backfill Materials Product and Services

Table 120. China BlueChemical Ltd. Phosphogypsum Mine Backfill Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. China BlueChemical Ltd. Recent Developments/Updates

Table 122. China BlueChemical Ltd. Competitive Strengths & Weaknesses

Table 123. Yunnan Shengwei Chemical Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 124. Yunnan Shengwei Chemical Co., Ltd. Major Business

Table 125. Yunnan Shengwei Chemical Co., Ltd. Phosphogypsum Mine Backfill Materials Product and Services

Table 126. Yunnan Shengwei Chemical Co., Ltd. Phosphogypsum Mine Backfill Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Yunnan Shengwei Chemical Co., Ltd. Recent Developments/Updates

Table 128. Yunnan Shengwei Chemical Co., Ltd. Competitive Strengths & Weaknesses

Table 129. Global Key Players of Phosphogypsum Mine Backfill Materials Upstream (Raw Materials)

Table 130. Global Phosphogypsum Mine Backfill Materials Typical Customers

Table 131. Phosphogypsum Mine Backfill Materials Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Phosphogypsum Mine Backfill Materials Picture

Figure 2. World Phosphogypsum Mine Backfill Materials Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Phosphogypsum Mine Backfill Materials Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Phosphogypsum Mine Backfill Materials Production (2021-2032) & (Kilotons)

Figure 5. World Phosphogypsum Mine Backfill Materials Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Phosphogypsum Mine Backfill Materials Production Value Market Share by Region (2021-2032)

Figure 7. World Phosphogypsum Mine Backfill Materials Production Market Share by Region (2021-2032)

Figure 8. China Phosphogypsum Mine Backfill Materials Production (2021-2032) & (Kilotons)

Figure 9. Phosphogypsum Mine Backfill Materials Market Drivers

Figure 10. Factors Affecting Demand

Figure 11. World Phosphogypsum Mine Backfill Materials Consumption (2021-2032) & (Kilotons)

Figure 12. World Phosphogypsum Mine Backfill Materials Consumption Market Share by Region (2021-2032)

Figure 13. United States Phosphogypsum Mine Backfill Materials Consumption (2021-2032) & (Kilotons)

Figure 14. China Phosphogypsum Mine Backfill Materials Consumption (2021-2032) & (Kilotons)

Figure 15. Europe Phosphogypsum Mine Backfill Materials Consumption (2021-2032) & (Kilotons)

Figure 16. Japan Phosphogypsum Mine Backfill Materials Consumption (2021-2032) & (Kilotons)

Figure 17. South Korea Phosphogypsum Mine Backfill Materials Consumption (2021-2032) & (Kilotons)

Figure 18. ASEAN Phosphogypsum Mine Backfill Materials Consumption (2021-2032) & (Kilotons)

Figure 19. India Phosphogypsum Mine Backfill Materials Consumption (2021-2032) & (Kilotons)

Figure 20. Producer Shipments of Phosphogypsum Mine Backfill Materials by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 21. Global Four-firm Concentration Ratios (CR4) for Phosphogypsum Mine Backfill Materials Markets in 2025

Figure 22. Global Four-firm Concentration Ratios (CR8) for Phosphogypsum Mine Backfill Materials Markets in 2025

Figure 23. United States VS China: Phosphogypsum Mine Backfill Materials Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 24. United States VS China: Phosphogypsum Mine Backfill Materials Production Market Share Comparison (2021 & 2025 & 2032)

Figure 25. United States VS China: Phosphogypsum Mine Backfill Materials Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States Based Manufacturers Phosphogypsum Mine Backfill Materials Production Market Share 2025

Figure 27. China Based Manufacturers Phosphogypsum Mine Backfill Materials Production Market Share 2025

Figure 28. Rest of World Based Manufacturers Phosphogypsum Mine Backfill Materials Production Market Share 2025

Figure 29. World Phosphogypsum Mine Backfill Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Phosphogypsum Mine Backfill Materials Production Value Market Share by Type in 2025

Figure 31. Compacted Bulk Backfill

Figure 32. Slurry Backfill

Figure 33. Paste Backfill

Figure 34. Others

Figure 35. World Phosphogypsum Mine Backfill Materials Production Market Share by Type (2021-2032)

Figure 36. World Phosphogypsum Mine Backfill Materials Production Value Market Share by Type (2021-2032)

Figure 37. World Phosphogypsum Mine Backfill Materials Average Price by Type (2021-2032) & (US\$/Ton)

Figure 38. World Phosphogypsum Mine Backfill Materials Production Value by Treatment Route, (USD Million), 2021 & 2025 & 2032

Figure 39. World Phosphogypsum Mine Backfill Materials Production Value Market Share by Treatment Route in 2025

Figure 40. Washing and Flotation Purification

Figure 41. Neutralization Treatment

Figure 42. Solidification and Stabilization

Figure 43. Integrated Harmless Treatment

Figure 44. Others

Figure 45. World Phosphogypsum Mine Backfill Materials Production Market Share by Treatment Route (2021-2032)

Figure 46. World Phosphogypsum Mine Backfill Materials Production Value Market Share by Treatment Route (2021-2032)

Figure 47. World Phosphogypsum Mine Backfill Materials Average Price by Treatment Route (2021-2032) & (US\$/Ton)

Figure 48. World Phosphogypsum Mine Backfill Materials Production Value by Formulatio System, (USD Million), 2021 & 2025 & 2032

Figure 49. World Phosphogypsum Mine Backfill Materials Production Value Market Share by Formulatio System in 2025

Figure 50. Low-Binder Modified Phosphogypsum

Figure 51. Cement-Based Stabilized Phosphogypsum

Figure 52. Lime-Based Stabilized Phosphogypsum

Figure 53. Slag and Fly-Ash-Based Composite Binder

Figure 54. Others

Figure 55. World Phosphogypsum Mine Backfill Materials Production Market Share by Formulatio System (2021-2032)

Figure 56. World Phosphogypsum Mine Backfill Materials Production Value Market Share by Formulatio System (2021-2032)

Figure 57. World Phosphogypsum Mine Backfill Materials Average Price by Formulatio System (2021-2032) & (US\$/Ton)

Figure 58. World Phosphogypsum Mine Backfill Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Phosphogypsum Mine Backfill Materials Production Value Market Share by Application in 2025

Figure 60. Phosphate Mine Pits

Figure 61. Metallic Mine Pits

Figure 62. Construction Material Quarry Pits

Figure 63. Others

Figure 64. World Phosphogypsum Mine Backfill Materials Production Market Share by Application (2021-2032)

Figure 65. World Phosphogypsum Mine Backfill Materials Production Value Market Share by Application (2021-2032)

Figure 66. World Phosphogypsum Mine Backfill Materials Average Price by Application (2021-2032) & (US\$/Ton)

Figure 67. Phosphogypsum Mine Backfill Materials Industry Chain

Figure 68. Phosphogypsum Mine Backfill Materials Procurement Model

Figure 69. Phosphogypsum Mine Backfill Materials Sales Model

Figure 70. Phosphogypsum Mine Backfill Materials Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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