

Global Phosphogypsum Mine Backfill Materials Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Phosphogypsum Mine Backfill Materials market size was valued at US\$ 32.93 million in 2025 and is forecast to a readjusted size of US\$ 58.94 million by 2032 with a CAGR of 7.1% during review period.

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 is a detailed and comprehensive analysis for global Phosphogypsum Mine Backfill Materials 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 Phosphogypsum Mine Backfill Materials market size and forecasts, in

consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Phosphogypsum Mine Backfill Materials market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Phosphogypsum Mine Backfill Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Phosphogypsum Mine Backfill Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for Phosphogypsum Mine Backfill Materials

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 Phosphogypsum Mine Backfill Materials 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 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.

Phosphogypsum Mine Backfill Materials 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 Segmentation

Market segment by Type

Compacted Bulk Backfill

Slurry Backfill

Paste Backfill

Others

Market segment by Treatment Route

Washing and Flotation Purification

Neutralization Treatment

Solidification and Stabilization

Integrated Harmless Treatment

Others

Market segment by Formulatio System

Low-Binder Modified Phosphogypsum

Cement-Based Stabilized Phosphogypsum

Lime-Based Stabilized Phosphogypsum

Slag and Fly-Ash-Based Composite Binder

Others

Market segment by Application

Phosphate Mine Pits

Metallic Mine Pits

Construction Material Quarry Pits

Others

Major players covered

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.

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)

Chapter Outline

Chapter 1, to describe Phosphogypsum Mine Backfill Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Phosphogypsum Mine Backfill Materials, with price, sales quantity, revenue, and global market share of Phosphogypsum Mine Backfill Materials from 2021 to 2026.

Chapter 3, the Phosphogypsum Mine Backfill Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Phosphogypsum Mine Backfill Materials 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 Phosphogypsum Mine Backfill Materials 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 Phosphogypsum Mine Backfill Materials.

Chapter 14 and 15, to describe Phosphogypsum Mine Backfill Materials sales channel, distributors, customers, research findings and conclusion.

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