

Global Eco-friendly Gold Beneficiation Agent 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 Eco-friendly Gold Beneficiation Agent market size was valued at US\$ 497 million in 2025 and is forecast to a readjusted size of US\$ 739 million by 2032 with a CAGR of 5.7% during review period.

In 2025, global sales of environmentally friendly gold beneficiation agents reached 239,000 tons, with an average price of US\$2,014 per ton.

Environmentally friendly gold beneficiation agents are green chemical agents that replace highly toxic cyanide. They are used to efficiently and safely extract gold from ores or electronic waste. This is mainly achieved through various cyanide-free or low-cyanide formulations. They have advantages such as low toxicity, environmental friendliness, high efficiency (rapid leaching), simple operation (no complex approvals/special protection required), and strong adaptability (able to handle difficult-to-leach ores). They are widely used in gold mining and precious metal recovery, achieving a win-win situation for both economic and environmental benefits. Mainstream 'environmentally friendly, low-toxicity cyanide-based' products use bulk chemicals such as urea, cyanuric acid, soda ash, ferrous sulfate, and ammonium sulfate as raw materials. These are synthesized into polycyanamide sodium through melting at 250–400 °C. The raw material cost is approximately RMB 3,000–4,000 per ton. The total factory cost after processing, granulation, and packaging is RMB 4,500–5,500 per ton, with a gross profit margin of 25–35%. This is significantly lower than the final price of sodium cyanide, but eliminates the hidden costs of RMB 1,000–1,500 per ton for highly toxic substances, including security, emergency response, and detoxification. Overall, the ore beneficiation cost is the same or slightly lower.

This report is a detailed and comprehensive analysis for global Eco-friendly Gold Beneficiation Agent 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 Eco-friendly Gold Beneficiation Agent market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Eco-friendly Gold Beneficiation Agent market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Eco-friendly Gold Beneficiation Agent market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Eco-friendly Gold Beneficiation Agent market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for Eco-friendly Gold Beneficiation Agent

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 Eco-friendly Gold Beneficiation Agent 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 Nouryon, Arkema, Evonik, BASF, Ecolab, Nasaco, Eco-Goldex, Guangxi Senhe High Technology, Henan Lvjin Mining Technology, Henan Tianzhishui Chemical, etc.

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

Market Segmentation

Eco-friendly Gold Beneficiation Agent market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Environmentally Friendly Cyanide Reagents

Non-Cyanide Reagents

Market segment by Commodity Form

Solid Powder/Particles

Liquid Concentrate

Market segment by Chemical Composition

Organic Cyanide Complexes

Cyanide-Free Small Molecule Reagents

Others

Market segment by Application

Oxidized Ore Type

Primary/Sulfide Ore Type

Carbon-Bearing/Arsenic-Bearing Refractory Ore Type

Major players covered

Nouryon

Arkema

Evonik

BASF

Ecolab

Nasaco

Eco-Goldex

Guangxi Senhe High Technology

Henan Lvjin Mining Technology

Henan Tianzhishui Chemical

Guangxi Dishengjin Chemical

Sandioss

Shenyang Jinyao Environmental Protection Technology

Shanxi Hongsheng Chemical

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Eco-friendly Gold Beneficiation Agent product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Eco-friendly Gold Beneficiation Agent, with price, sales quantity, revenue, and global market share of Eco-friendly Gold Beneficiation Agent from 2021 to 2026.

Chapter 3, the Eco-friendly Gold Beneficiation Agent competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Eco-friendly Gold Beneficiation Agent 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 Eco-friendly Gold Beneficiation Agent 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 Eco-friendly Gold Beneficiation Agent.

Chapter 14 and 15, to describe Eco-friendly Gold Beneficiation Agent sales channel, distributors, customers, research findings and conclusion.

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