

Global Environmentally Friendly Cold-box Resin Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Environmentally Friendly Cold-box Resin market size is expected to reach \$ 1366 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

Environmentally Friendly Cold-box Resin is a specialized binder system used in foundry applications to create sand cores and molds. Unlike traditional resins, it is formulated with non-toxic or low-toxicity components, minimizing volatile organic compound (VOC) emissions and hazardous waste generation. The resin cures rapidly at room temperature through chemical reactions (typically using a gaseous amine catalyst), delivering high-strength sand molds while reducing energy consumption. This technology is widely adopted in the production of iron, steel, and aluminum castings across automotive, aerospace, heavy machinery, and rail transportation industries.

The upstream segment includes suppliers of phenolic resins, isocyanates, solvents, and specialized additives. The midstream segment encompasses resin synthesis, formulation blending, and quality testing performed by specialized chemical manufacturers. The downstream segment serves foundries, metal casting facilities, and automotive component manufacturers.

The global average selling price for environmentally friendly cold-box resins is approximately US\$1,950 per ton, with annual sales volume reaching approximately 459,000 tons in 2025. The industry maintains gross margins between 20% and 35%.

The global environmentally friendly cold-box resin market is experiencing steady growth, driven by the foundry industry's accelerating shift toward sustainable manufacturing practices and increasingly stringent environmental regulations on volatile

organic compound emissions. Foundries worldwide are replacing traditional resin systems with eco-friendly alternatives to reduce workplace hazards, lower disposal costs, and comply with tightening emission standards across major industrial regions .

A notable trend reshaping the market is the development of next-generation binder systems with significantly reduced hazardous components. Major manufacturers have introduced advanced cold-box binder platforms that feature non-hazardous Part 1 components, achieving up to 40% reduction in aromatic emissions and substantially lower phenol content in used sand. These innovations address both environmental concerns and economic considerations, as reduced binder usage and lower catalyst consumption directly improve foundry profitability while minimizing environmental impact .

Another significant development is the growing adoption of cold-box technology in aluminum and alloy casting applications. While traditionally dominant in iron and steel casting, the versatility of environmentally friendly cold-box systems is expanding into non-ferrous metal casting, driven by the automotive industry's lightweighting trends and electric vehicle component production. The ability to produce complex, high-precision cores with excellent surface finish and dimensional accuracy makes cold-box technology increasingly attractive for these applications .

This report studies the global Environmentally Friendly Cold-box Resin production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Environmentally Friendly Cold-box Resin 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 Environmentally Friendly Cold-box Resin that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Environmentally Friendly Cold-box Resin total production and demand, 2021-2032, (Kilotons)

Global Environmentally Friendly Cold-box Resin total production value, 2021-2032, (USD Million)

Global Environmentally Friendly Cold-box Resin production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Environmentally Friendly Cold-box Resin consumption by region & country,

CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Environmentally Friendly Cold-box Resin domestic production, consumption, key domestic manufacturers and share

Global Environmentally Friendly Cold-box Resin production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Environmentally Friendly Cold-box Resin production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Environmentally Friendly Cold-box Resin production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Environmentally Friendly Cold-box Resin 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 H?ttenes-Albertus Chemische Werke GmbH, ASK Chemicals GmbH, Vesuvius Group, REFCOTEC GmbH & Co. KG, Asahi Yukizai Corporation, F.lli Mazzon S.p.A., Furtenbach GmbH, United Erie, Inc., Mancuso Chemicals Limited, IVP, 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 Environmentally Friendly Cold-box Resin 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 Environmentally Friendly Cold-box Resin Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Environmentally Friendly Cold-box Resin Market, Segmentation by Type:

Environmentally Friendly Type

Ordinary Type

Other

Global Environmentally Friendly Cold-box Resin Market, Segmentation by Curing Catalyst:

DMIPA (Dimethylisopropylamine)

DMPA (Dimethylpropylamine)

TEA (Triethylamine)

Global Environmentally Friendly Cold-box Resin Market, Segmentation by Emission Reduction Level:

Standard Low-VOC

High-Performance Low-Emission

Ultra-Low Emission

Global Environmentally Friendly Cold-box Resin Market, Segmentation by Application:

Steel Castings

Iron Castings

Non-ferrous Metal Castings

Companies Profiled:

H?ttenes-Albertus Chemische Werke GmbH

ASK Chemicals GmbH

Vesuvius Group

REFCOTEC GmbH & Co. KG

Asahi Yukizai Corporation

F.lli Mazzon S.p.A.

Furtenbach GmbH

United Erie, Inc.

Mancuso Chemicals Limited

IVP

Ashland Inc.

Suzhou Xingye Materials Technology Co., Ltd.

Jinan Shengquan Group Co., Ltd.

Shandong ChiShuo Development Group Co., Ltd.

Huahao Casting Materials Co., Ltd.

Key Questions Answered:

1. How big is the global Environmentally Friendly Cold-box Resin market?
2. What is the demand of the global Environmentally Friendly Cold-box Resin market?
3. What is the year over year growth of the global Environmentally Friendly Cold-box Resin market?
4. What is the production and production value of the global Environmentally Friendly Cold-box Resin market?
5. Who are the key producers in the global Environmentally Friendly Cold-box Resin market?
6. What are the growth factors driving the market demand?

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