

# Global Furan Resin for Foundry Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Furan Resin for Foundry market size is expected to reach \$ 926 million by 2032, rising at a market growth of 3.6% CAGR during the forecast period (2026-2032).

Furan foundry resin is a liquid organic binder produced primarily from furfuryl alcohol and its condensates, modified with substances such as urea, formaldehyde, or phenol. When mixed with foundry sand and a sulfonic acid-based curing agent, the resin undergoes polycondensation and cross-linking reactions at ambient temperature. This process bonds virgin or reclaimed sand into molds or cores that possess the necessary strength, dimensional stability, and resistance to the casting process. It is primarily used for self-hardening sand molding and core-making in the production of cast iron, cast steel, and certain non-ferrous metal castings.

The core upstream raw material is furfuryl alcohol, which is typically produced via the catalytic hydrogenation of furfural—a substance derived from pentoses found in biomass such as corncobs and sugarcane bagasse. The dosage and purity of furfuryl alcohol directly influence the resin's high-temperature strength, gas evolution, and production cost. Other key raw materials include formaldehyde, urea, and phenol: urea is used to enhance ambient-temperature strength and manage costs, though excessive levels may increase the risk of nitrogen porosity; phenol primarily improves heat resistance and suitability for steel casting. Auxiliary materials include formaldehyde scavengers, silane coupling agents, stabilizers, and diluents. Midstream enterprises carry out polycondensation, dehydration, blending, and quality testing, and sell the products alongside curing agents such as p-toluenesulfonic acid and xylenesulfonic acid. Downstream, foundries utilize these resins in sand molding, sand core making, and reclaimed sand systems to support the production of cast iron, cast steel, and certain non-ferrous metal castings.

In 2025, global sales volume for foundry furan resins is projected to reach approximately 540,000 metric tons, with an average selling price of around US\$1,300 per ton and gross profit margins for major manufacturers ranging from 15% to 25%.

The foundry furan resin industry has entered a development phase characterized primarily by product upgrades and the replacement of existing inventory; demand is driven by the production of large and medium-sized iron and steel castings, the widespread adoption of resin-bonded self-hardening sand processes, and increased rates of used sand reclamation. Furan resins offer advantages such as room-temperature self-hardening, high mold strength, excellent dimensional stability, and strong compatibility with reclaimed sand, making them a key binder system for large, single-piece, and small-batch castings in the short term. However, the industry faces constraints regarding fluctuations in furfuryl alcohol prices and supply, occupational health regulations concerning free formaldehyde and free furfuryl alcohol, issues with casting fumes and odors, and potential casting defects—such as porosity and nodularity fade—caused by nitrogen and sulfur present in the resins and curing agents. While phenolic-urethane self-hardening resins, alkaline phenolic resins, and inorganic binders may serve as substitutes in sectors with strict environmental standards or for specific types of castings, factors such as overall cost, equipment compatibility, and existing sand reclamation infrastructure make it difficult for furan resins to be entirely replaced. Future market growth will increasingly stem from products featuring low or zero nitrogen content, low levels of free formaldehyde and free furfuryl alcohol, low-sulfur curing, high strength at low dosage rates, and high compatibility with reclaimed sand; furthermore, industry competition will shift from simple price-based rivalry to competition centered on resin-curing agent system integration, on-site process support, and capabilities in controlling casting defects.

## Report Scope

This report studies the global Furan Resin for Foundry production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Furan Resin for Foundry 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 Furan Resin for Foundry that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Furan Resin for Foundry total production and demand, 2021-2032, (Tons)

Global Furan Resin for Foundry total production value, 2021-2032, (USD Million)

Global Furan Resin for Foundry production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Furan Resin for Foundry consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Furan Resin for Foundry domestic production, consumption, key domestic manufacturers and share

Global Furan Resin for Foundry production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Furan Resin for Foundry production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Furan Resin for Foundry production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Furan Resin for Foundry 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 ASK Chemicals, Vesuvius, HA Group, Kao-Quaker, ASAHI YUKIZAI, Çukurova Kimya, Forace, Shengquan Group, Suzhou Xingye Materials Technology, Shandong Baofeng New Materials, 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 Furan Resin for Foundry market

## **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Furan Resin for Foundry Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## **Market Segmentation**

### **Global Furan Resin for Foundry Market, Segmentation by Type:**

No-bake Furan Resin

Heat-curing Furan Resin

## **Global Furan Resin for Foundry Market, Segmentation by Nitrogen Content:**

Nitrogen-free Type (<0.5%)

Low Nitrogen Type (>0.5%–2.0%)

Medium Nitrogen Type (>2.0%–5.0%)

High Nitrogen Type (>5.0%–10.0%)

## **Global Furan Resin for Foundry Market, Segmentation by Free Furfuryl Alcohol Content:**

Free Furfuryl Alcohol >25%

Free Furfuryl Alcohol <25%

## **Global Furan Resin for Foundry Market, Segmentation by Application:**

Gray Iron Castings

Ductile Iron Castings

Steel Castings

Copper Alloy Castings

Others

## **Companies Profiled:**

ASK Chemicals

Vesuvius

HA Group

Kao-Quaker

ASAHI YUKIZAI

Çukurova Kimya

Forace

Shengquan Group

Suzhou Xingye Materials Technology

Shandong Baofeng New Materials

Zhejiang Tianqi New Material Technology

Sichuan Dongshu New Materials

Xinda Casting Technology

## Key Questions Answered

1. How big is the global Furan Resin for Foundry market?
2. What is the demand of the global Furan Resin for Foundry market?
3. What is the year over year growth of the global Furan Resin for Foundry market?
4. What is the total value of the global Furan Resin for Foundry market?
5. Who are the Major Players in the global Furan Resin for Foundry market?
6. What are the growth factors driving the market demand?

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