

Global Endothermic Blowing Agent Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Endothermic Blowing Agent market size is expected to reach \$ 2812 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

Endothermic foaming agents are a class of chemical foaming aids that absorb heat and release gases?such as carbon dioxide and water vapor?during their thermal decomposition process. Typically composed primarily of bicarbonates, organic acid salts, and proprietary blends, these agents are utilized in the processing of plastics, rubber, elastomers, and composite materials to create microporous structures. This process serves to achieve weight reduction, thermal insulation, density reduction, improved dimensional stability, and enhanced cushioning performance in the final materials. In 2025, the global sales volume of endothermic foaming agents is projected to reach approximately 647,000 tons, with an average unit price of approximately \$2,860 per ton and a capacity utilization rate of approximately 72%. Upstream enterprises in this sector primarily encompass suppliers of bicarbonates, organic acids, inorganic salts, carrier resins, dispersants, surface treatment agents, granulation equipment, powder processing machinery, and chemical packaging materials. Downstream enterprises are predominantly found in fields such as plastics modification, injection-molded products, extruded sheets, foamed rubber, footwear materials, automotive interiors, packaging materials, building insulation, and sports and leisure goods. The industry's average gross profit margin stands at approximately 27%. Regarding the product cost structure, active foaming components (such as bicarbonates and organic acid salts) account for approximately 36%; carrier resins and dispersion systems account for about 18%; surface treatment agents and processing aids account for roughly 9%; pulverizing, mixing, and granulation processing account for about 12%; quality control and thermal decomposition performance verification account for

approximately 7%; packaging and logistics account for about 5%; direct labor and manufacturing overhead account for roughly 6%; and R&D, formulation services, and after-sales support account for approximately 7%. Downstream demand encompasses applications such as lightweight plastic foaming, weight reduction in injection-molded products, microporous structuring of extruded sheets, foaming of rubber cushioning materials, sole foaming for footwear, lightweighting of automotive interiors, cushioning packaging materials, building insulation materials, sports matting, and the substitution of traditional materials with eco-friendly foamed alternatives. The downstream client base includes automotive component manufacturers, plastics modification plants, footwear material manufacturers, packaging material producers, building material enterprises, manufacturers of plastic components for home appliances, sports equipment companies, rubber product manufacturers, polyolefin processors, and composite material manufacturers. In terms of business opportunities, policy-driven factors stem from requirements regarding automotive lightweighting, plastic reduction, green manufacturing, low volatile emissions, and the substitution of materials with eco-friendly foaming alternatives. Technological innovation is driven by advancements in low-odor formulations, precise control of decomposition temperatures, high-dispersion masterbatches, low-dust powders, uniform micropore structures, and enhanced compatibility with polyolefins and engineering plastics. Meanwhile, shifting consumer demands are reflected in customers' increased focus on material lightweighting, product aesthetic stability, odor reduction, wider processing windows, controllable foaming ratios, production safety, and overall cost reduction.

Market demand for endothermic foaming agents is currently shifting away from traditional, low-cost foaming aids toward eco-friendly, low-odor products characterized by high stability and superior dispersibility. This shift is primarily driven by the increasingly stringent requirements within downstream sectors—including plastics, rubber, footwear materials, packaging, and automotive interiors—regarding lightweighting, low emissions, and product consistency. Compared to certain exothermic foaming agents, endothermic foaming agents exhibit a gentler heat release during decomposition, a steadier rate of gas evolution, and relatively controllable residues; consequently, they are better suited for products with exacting requirements regarding aesthetics, odor, processing safety, and dimensional stability. In 2025, industry competition will center on factors such as matching decomposition temperatures, the stability of gas evolution volumes, particle dispersibility, dust control, compatibility with specific resin systems, and the surface quality of finished products. While price competition remains intense for standard powder-based products, masterbatch, pre-dispersed, low-odor, and specialized grades tailored for high-end modified plastics offer more attractive profit margins. The trends toward automotive lightweighting and

packaging reduction will continue to drive the adoption of endothermic foaming agents in polypropylene, polyethylene, PVC, thermoplastic elastomers, and engineering plastics; meanwhile, the footwear and sports mat sectors will place greater emphasis on resilience, density control, and odor performance. Future product development and upgrading efforts will focus on achieving more precise decomposition temperatures, more uniform microporous structures, lower required addition levels, enhanced color stability, and greater compatibility with automated feeding systems. Key industry risks include price volatility in basic chemical raw materials, the commoditization of low-end powder products, fluctuations in downstream orders tied to consumer product cycles, prolonged validation periods resulting from variations in customer processing techniques, and increasingly stringent environmental regulations regarding residue levels and odor emissions. Overall, endothermic foaming agents constitute a vital category within the realm of lightweighting materials and eco-friendly processing aids; mid-to-high-end product segments are poised to benefit from the sustained demand across the automotive, packaging, footwear, and high-performance plastics sectors for weight reduction, low-odor properties, and stable processing capabilities.

This report studies the global Endothermic Blowing Agent production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Endothermic Blowing Agent 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 Endothermic Blowing Agent that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Endothermic Blowing Agent total production and demand, 2021-2032, (Tons)

Global Endothermic Blowing Agent total production value, 2021-2032, (USD Million)

Global Endothermic Blowing Agent production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Endothermic Blowing Agent consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Endothermic Blowing Agent domestic production, consumption, key domestic manufacturers and share

Global Endothermic Blowing Agent production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Endothermic Blowing Agent production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Endothermic Blowing Agent production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Endothermic Blowing Agent 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 Solvay (BE), Eiwa (JP), CONSTAB (DE), Adeka (JP), Otsukac (JP), Kumyang (KR), Tramaco GmbH (DE), Ampacet Corporation (US), Nemitz (DE), Lehmann&Voss (DE), 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 Endothermic Blowing Agent 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 Endothermic Blowing Agent Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Endothermic Blowing Agent Market, Segmentation by Type:

Sodium Bicarbonate

Ammonium Carbonate

Other

Global Endothermic Blowing Agent Market, Segmentation by Gas Evolution (mL/g):

Blow 100

100-150

Above 150

Global Endothermic Blowing Agent Market, Segmentation by Form:

Powder Type

Masterbatch Type

Other

Global Endothermic Blowing Agent Market, Segmentation by Application:

Chemical Industry

Automotive

Home Appliances

Medical Treatment

Other

Companies Profiled:

Solvay (BE)

Eiwa (JP)

CONSTAB (DE)

Adeka (JP)

Otsukac (JP)

Kumyang (KR)

Tramaco GmbH (DE)

Ampacet Corporation (US)

Nemitz (DE)

Lehmann&Voss (DE)

Hecoplast (DE)

Hebron (ES)

Wells Plastics (GB)

Jiangsu SOPO Chemical (CN)

Zhejiang Joysunsh (CN)

Haihong Group (CN)

Junyuan Petroleum Group (CN)

Fujian Jinlang New Material Technology (CN)

Key Questions Answered:

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

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