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Global Thermally Expandable Microspheres Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thermally Expandable Microspheres market size is expected to reach $ 1076 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

Thermal expansion microspheres are thermoplastic hollow polymer microspheres, consisting of a thermoplastic polymer shell and enclosed liquid alkane gas. ? When heated, the gas pressure within the shell increases and the thermoplastic shell softens, allowing the expanded microspheres to increase in volume significantly. When cooled, the expanded microsphere shell hardens again and has a fixed volume. Thermal expandable microspheres have a variety of properties, including expandability, thermal stability, particle size control, shell thickness, chemical resistance, elasticity, air tightness and mechanical strength. These properties make thermally expandable microspheres widely used in many fields.

The upstream supply chain primarily relies on specialty chemical raw materials, including monomers such as vinylidene chloride, acrylonitrile, and acrylates used as shell materials, and low-boiling point hydrocarbons (such as isopentane and isobutane) encapsulated inside as physical blowing agents.
Global sales are projected to be approximately 180,000 tons in 2025, with an average market price of approximately US$3,630 per ton. The industry's gross profit margin is in the range of 15%-30%.

The driving force behind the continuous expansion of the thermal expansion microsphere market stems from the global industrial pursuit of lightweighting and intelligent interaction. For example, by adding microspheres to automotive interiors and coatings, component density can be significantly reduced without sacrificing structural

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strength, directly improving the range of electric vehicles. National industrial policies also create a favorable environment for the industry; relevant guidelines list high-performance composite materials as key strategic materials and encourage their development. However, the production of high-performance thermal expansion microspheres faces high technological barriers, such as the difficulty in precisely controlling the uniformity of the polymer network in the microsphere shell, which affects the stable improvement of product quality.

This report studies the global Thermally Expandable Microspheres production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thermally Expandable Microspheres 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 Thermally Expandable Microspheres that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thermally Expandable Microspheres total production and demand, 2021-2032, (Tons)
Global Thermally Expandable Microspheres total production value, 2021-2032, (USD Million)
Global Thermally Expandable Microspheres production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global Thermally Expandable Microspheres consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: Thermally Expandable Microspheres domestic production, consumption, key domestic manufacturers and share
Global Thermally Expandable Microspheres production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Thermally Expandable Microspheres production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Thermally Expandable Microspheres production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Thermally Expandable Microspheres 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 Nouryon, Kumyang, Dongjin

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Semichem, SEKISUI, Matsumoto Yushi-Seiyaku, Kureha, Chase Corporation, Crerax, Hunan Farida, Yunyan Materials Science, 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 Thermally Expandable Microspheres 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 Thermally Expandable Microspheres Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermally Expandable Microspheres Market, Segmentation by Type:

Low Temperature Expansion Type

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Medium Temperature Expansion Type

High Temperature Expansion Type

Ultra High Temperature Expansion Type

Global Thermally Expandable Microspheres Market, Segmentation by Form:

Unexpanded

Pre-expanded

Global Thermally Expandable Microspheres Market, Segmentation by Particle Size:

5-15 ?m

20-40 ?m

Other

Global Thermally Expandable Microspheres Market, Segmentation by Application:

Plastics

Inks and Coatings

Adhesives

Construction

Other

Companies Profiled:

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Nouryon

Kumyang

Dongjin Semichem

SEKISUI

Matsumoto Yushi-Seiyaku

Kureha

Chase Corporation

Crerax

Hunan Farida

Yunyan Materials Science

Hytitan

Zhejiang Shuntai Rubber and Plastic Technology

Key Questions Answered:

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

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