

Report Information

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Expandable Microspheres Market Research Report - Global Forecast till 2032

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Description:

Global Expandable Microspheres Market Overview

Expandable Microspheres Market Size was valued at USD 2.5 Billion in 2022. The Expandable Microspheres market industry is projected to grow from USD 2.77 Billion in 2023 to USD 6.39 Billion by 2032, exhibiting a compound annual growth rate (CAGR) of 11.00% during the forecast period (2023 - 2032). Excessive use of microspheres in the weight reduction of automobile headliners, undercoating and other materials, and extensive use as a lightweight filler are the key market drivers enhancing the market growth.

Expandable Microspheres Market Overview

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Expandable Microspheres Market Trends

• Growing demand in the construction industry is driving the market growth

The rising demand in the construction industry drives market CAGR for expandable microspheres. Expandable microspheres are extensively applied in construction materials such as lightweight cement, coatings, and insulation. The construction industry has been focusing on sustainability and energy efficiency, driving the adoption of expandable microspheres. These microspheres improve the insulation properties of construction materials, reducing energy consumption and carbon emissions. Additionally, they provide weight reduction benefits without compromising structural integrity, enabling the construction of lighter and more durable structures. As the construction industry grows, especially in emerging economies, the demand for expandable microspheres will surge, presenting significant opportunities for market players.

Lightweighting has become a key focus in the automotive industry as manufacturers strive to improve fuel efficiency and reduce emissions. Expandable microspheres offer an effective solution by reducing the weight of various automotive components, including foams, composites, and fillers. These microspheres help achieve weight reduction without compromising safety or performance. Additionally, they enhance acoustic and thermal insulation properties, improving passenger comfort. The increasing adoption of electric vehicles further fuels the demand for expandable microspheres, as lighter vehicle components contribute to extended battery life and increased range. The automotive industry's shift toward sustainable and electric mobility to drive the demand for expandable microspheres in the coming years.

The expandable microspheres market is experiencing a significant boost due to packaging innovations. Packaging is crucial in protecting and preserving products, and expandable microspheres offer unique advantages. These microspheres are widely used in packaging materials, such as foams and films, to provide cushioning and impact resistance. They act as shock absorbers, protecting fragile goods during transit. With the increasing focus on sustainability and eco-friendly packaging, expandable microspheres offer an attractive solution. They are recyclable, lightweight, and reduce material usage, contributing to reduced environmental impact. Moreover, expandable microspheres can enhance the thermal insulation properties of packaging, ensuring temperature stability for sensitive products. The growing e-commerce industry and the need for efficient and sustainable packaging solutions will continue to drive the demand for expandable microspheres in the packaging sector.

As the construction industry emphasizes energy efficiency and lightweight, expandable microspheres provide a versatile solution for improving insulation and reducing weight. In the automotive sector, these microspheres contribute to lightweighting efforts and support the transition to sustainable mobility. Furthermore, expandable microspheres enhance packaging performance by providing cushioning, impact resistance, and thermal insulation properties. The expanding construction, automotive, and packaging industries and the growing awareness of sustainability create a favorable market environment for expandable microspheres. Market players can capitalize on these trends by focusing on product innovation, expanding their customer base, and forging strategic partnerships to seize emerging opportunities, driving the Expandable Microspheres market revenue.

Expandable Microspheres Market Segment Insights

## Expandable Microspheres Type Insights

The Expandable Microspheres market segmentation, based on type, includes dry and wet. The dry segment dominated the market. Dry expandable microspheres are lightweight, hollow particles that contain a gas or a volatile liquid encapsulated within a polymer shell. These microspheres are generally used to reduce the density of materials and improve insulation properties. When heat exposure, the encapsulated gas or liquid expands, increasing volume and reducing density.

## Expandable Microspheres End-Use Industry Insights

The Expandable Microspheres market segmentation, based on the end-use industry, includes automotive, construction, sports & leisure, and consumer goods. The automotive category generated the most income. By incorporating expandable microspheres, manufacturers can reduce the weight of vehicles, leading to enhanced fuel efficiency and reduced carbon emissions. Moreover, these microspheres provide excellent acoustic insulation, vibration damping, and impact resistance.

**Figure 1: Expandable Microspheres Market, by End-Use Industry, 2022 & 2032 (USD Billion)**

Expandable Microspheres Market, by End-Use Industry, 2022 & 2032

**Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review**

## Expandable Microspheres Regional Insights

By region, the study provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. The North American Expandable Microspheres market area will dominate this market due to the increasing demand from industries such as automotive, construction, and packaging. In addition, the growing emphasis on lightweight materials in the automotive sector to convert fuel efficiency has driven the demand for expandable microspheres. Moreover, the construction industry has adopted these microspheres to enhance the insulation properties of materials. Major companies and technological advancements in the region further contribute to market growth.

Further, the major countries studied in the market report are The US, Canada, German, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

**Figure 2: EXPANDABLE MICROSPHERES MARKET SHARE BY REGION 2022 (USD Billion)**

EXPANDABLE MICROSPHERES MARKET SHARE BY REGION

**Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review**

Europe's Expandable Microspheres market accounts for the second-largest market share. The automotive industry in Europe has been a major driver for expandable microspheres, with manufacturers using them to reduce the weight of vehicles while maintaining structural integrity. Additionally, the stringent regulations in Europe regarding energy efficiency and insulation in buildings have further propelled the demand for expandable microspheres in the construction sector. Further, the German Expandable Microspheres market held the largest market share, and the UK Expandable Microspheres market was the rapid-growing market in the European region.

The Asia-Pacific Expandable Microspheres Market is expected to grow at the fastest CAGR from 2023 to 2032. It is due to the expanding automotive and construction industries. The region's growing population, urbanization, and increasing disposable income have led to a surge in automobile sales, thus driving the demand for lightweight materials like expandable microspheres. Moreover, China's Expandable Microspheres market held the largest market share, and the Indian Expandable Microspheres market was the significant-growing market in the Asia-Pacific region.

## Expandable Microspheres Key Market Players & Competitive Insights

Leading market players are investing heavily in research and development to expand their product lines, which will help the Expandable Microspheres market grow even more. Market participants are also undertaking various strategic activities to expand their footprint, with important market developments including new product launches, contractual agreements, mergers and acquisitions, higher investments, and collaboration with other organizations. The Expandable Microspheres industry must offer cost-effective items to expand and survive in a more competitive and rising market climate.

Manufacturing locally to minimize operational costs is one of the key business tactics manufacturers use in the Expandable Microspheres industry to benefit clients and increase the market sector. The Expandable Microspheres industry has offered some of the most significant medical advantages in recent years. Major players in the Expandable Microspheres market, including Nanjing Chemical Material Corp. (China), Mark Impex (India), Matsumoto Yushi-Seiyaku Co., Ltd (Japan), Nouryon (Netherlands), KUREHA CORPORATION (Japan), Dennert Poraver GmbH (Germany), Chase Corporation (US), Nanosphere (China), SEKISUI CHEMICAL CO., LTD. (Japan), Shanghai Joysun Chemical Co., Ltd (China), and others, are attempting to increase market demand by investing in research and development operations.

Sirtex Medical Limited, founded in 1997, and located in Woburn, MA, is a medical company that provides radioactive treatment for inoperable liver cancer called SIR-Spheres microspheres. It maintains offices and manufacturing facilities in the USA, Australia, Germany, and Singapore. In February 2022, Sirtex Medical, an eminent developer of targeted liver cancer therapies, teams up with its major shareholder, Grand Pharmaceutical Group Limited, to confirm the approval of SIR-Spheres Y-90 resin microspheres by the National Medical Products Administration for treating patients affected by colorectal cancer liver metastases. SIR-Spheres Y-90 resin microspheres will be the first and the only radioactive microsphere item that has received approval from the NMPA achieved outside of China.

Nouryon Company, a specialty chemicals leader operating in more than 80 countries, presently provides essential solutions to manufacture everyday products, which include personal care, cleaning, paints and coatings, agriculture and food, pharmaceuticals, and building products to the customers. The products include bleaching and oxidizing chemicals and technologies, polymer production and processing chemicals, and specialty polymers. In November 2021, Nouryon started the engineering stage at its plant, developing Expancel expandable microspheres in Wisconsin, accelerating its mission to serve its North American customers interested in specialty additives. Construction of the unit is to rise by the end of the year. The Green Bay, Wisconsin, spot has been selected as it complements the brand's current production facilities in Brazil, China, and Sweden. Expandable microspheres help

lighten several end products while reducing the total costs and environmental impact, as these require less raw material. With the dramatic growth in the demand for expandable microspheres, mostly in North America's construction, transportation, and packaging industries, the company is accelerating its plans to foster its production rate while focusing on worldwide sustainability trends.

## Key Companies in the Expandable Microspheres market include

- Nanjing Chemical Material Corp. (China)
- Mark Impex (India)
- Matsumoto Yushi-Seiyaku Co., Ltd (Japan)
- Nouryon (Netherlands)
- KUREHA CORPORATION (Japan)
- Dennert Poraver GmbH (Germany)
- Chase Corporation (US), Nanosphere (China)
- SEKISUI CHEMICAL CO., LTD. (Japan)
- Shanghai Joysun Chemical Co., Ltd (China)

## Expandable Microspheres Industry Developments

**April 2021:** Terumo Europe NV launched the BioPearl microspheres (the first biodegradable drug-eluting microspheres), which has received the CE mark, indicating that it is an option for loco-regional embolization of target artery blood supply for liver cancer.

**June 2022:** Nouryon launched expancelHP92 microspheres. It reduces weight and can combat more pressure in coatings and sealants for the automotive industry.

## Expandable Microspheres Market Segmentation

### Expandable Microspheres Type Outlook

- Dry
- Wet

### Expandable Microspheres End-Use Industry Outlook

- Automotive
- Construction
- Sports & Leisure
- Consumer Goods

### Expandable Microspheres Regional Outlook

- North America
  - US
  - Canada
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Spain
  - Rest of Europe

- Asia-Pacific
  - China
  - Japan
  - India
  - Australia
  - South Korea
  - Australia
  - Rest of Asia-Pacific
- Rest of the World
  - Middle East
  - Africa
  - Latin America

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