

# 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

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

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

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  $\mu$ m

20-40  $\mu$ m

Other

Global Thermally Expandable Microspheres Market, Segmentation by Application:

Plastics

Inks and Coatings

Adhesives

Construction

Other

Companies Profiled:

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?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Commercial Quantum Computing Solutions Introduction
- 1.2 World Commercial Quantum Computing Solutions Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Commercial Quantum Computing Solutions Total Market by Region (by Headquarter Location)
  - 1.3.1 World Commercial Quantum Computing Solutions Market Size by Region (2021-2032), (by Headquarter Location)
  - 1.3.2 United States Based Company Commercial Quantum Computing Solutions Revenue (2021-2032)
  - 1.3.3 China Based Company Commercial Quantum Computing Solutions Revenue (2021-2032)
  - 1.3.4 Europe Based Company Commercial Quantum Computing Solutions Revenue (2021-2032)
  - 1.3.5 Japan Based Company Commercial Quantum Computing Solutions Revenue (2021-2032)
  - 1.3.6 South Korea Based Company Commercial Quantum Computing Solutions Revenue (2021-2032)
  - 1.3.7 ASEAN Based Company Commercial Quantum Computing Solutions Revenue (2021-2032)
  - 1.3.8 India Based Company Commercial Quantum Computing Solutions Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Commercial Quantum Computing Solutions Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Commercial Quantum Computing Solutions Consumption Value (2021-2032)
- 2.2 World Commercial Quantum Computing Solutions Consumption Value by Region
  - 2.2.1 World Commercial Quantum Computing Solutions Consumption Value by Region (2021-2026)
  - 2.2.2 World Commercial Quantum Computing Solutions Consumption Value Forecast by Region (2027-2032)
- 2.3 United States Commercial Quantum Computing Solutions Consumption Value

(2021-2032)

2.4 China Commercial Quantum Computing Solutions Consumption Value (2021-2032)

2.5 Europe Commercial Quantum Computing Solutions Consumption Value  
(2021-2032)

2.6 Japan Commercial Quantum Computing Solutions Consumption Value (2021-2032)

2.7 South Korea Commercial Quantum Computing Solutions Consumption Value  
(2021-2032)

2.8 ASEAN Commercial Quantum Computing Solutions Consumption Value  
(2021-2032)

2.9 India Commercial Quantum Computing Solutions Consumption Value (2021-2032)

### **3 WORLD COMMERCIAL QUANTUM COMPUTING SOLUTIONS COMPANIES COMPETITIVE ANALYSIS**

3.1 World Commercial Quantum Computing Solutions Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global Commercial Quantum Computing Solutions Industry Rank of Major  
Players

3.2.2 Global Concentration Ratios (CR4) for Commercial Quantum Computing  
Solutions in 2025

3.2.3 Global Concentration Ratios (CR8) for Commercial Quantum Computing  
Solutions in 2025

3.3 Commercial Quantum Computing Solutions Company Evaluation Quadrant

3.4 Commercial Quantum Computing Solutions Market: Overall Company Footprint  
Analysis

3.4.1 Commercial Quantum Computing Solutions Market: Region Footprint

3.4.2 Commercial Quantum Computing Solutions Market: Company Product Type  
Footprint

3.4.3 Commercial Quantum Computing Solutions Market: Company Product  
Application Footprint

3.5 Competitive Environment

3.5.1 Historical Structure of the Industry

3.5.2 Barriers of Market Entry

3.5.3 Factors of Competition

3.6 Mergers & Acquisitions Activity

### **4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)**

#### 4.1 United States VS China: Commercial Quantum Computing Solutions Revenue Comparison (by Headquarter Location)

4.1.1 United States VS China: Commercial Quantum Computing Solutions Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: Commercial Quantum Computing Solutions Revenue Market Share Comparison (2021 & 2025 & 2032)

#### 4.2 United States Based Companies VS China Based Companies: Commercial Quantum Computing Solutions Consumption Value Comparison

4.2.1 United States VS China: Commercial Quantum Computing Solutions Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Commercial Quantum Computing Solutions Consumption Value Market Share Comparison (2021 & 2025 & 2032)

#### 4.3 United States Based Commercial Quantum Computing Solutions Companies and Market Share, 2021-2026

4.3.1 United States Based Commercial Quantum Computing Solutions Companies, Headquarters (States, Country)

4.3.2 United States Based Companies Commercial Quantum Computing Solutions Revenue, (2021-2026)

#### 4.4 China Based Companies Commercial Quantum Computing Solutions Revenue and Market Share, 2021-2026

4.4.1 China Based Commercial Quantum Computing Solutions Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Commercial Quantum Computing Solutions Revenue, (2021-2026)

#### 4.5 Rest of World Based Commercial Quantum Computing Solutions Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Commercial Quantum Computing Solutions Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Commercial Quantum Computing Solutions Revenue (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

#### 5.1 World Commercial Quantum Computing Solutions Market Size Overview by Type: 2021 VS 2025 VS 2032

#### 5.2 Segment Introduction by Type

5.2.1 Hardware

5.2.2 Software and Service

#### 5.3 Market Segment by Type

5.3.1 World Commercial Quantum Computing Solutions Market Size by Type (2021-2026)

5.3.2 World Commercial Quantum Computing Solutions Market Size by Type (2027-2032)

5.3.3 World Commercial Quantum Computing Solutions Market Size Market Share by Type (2027-2032)

## **6 MARKET ANALYSIS BY TECHNOLOGY**

6.1 World Commercial Quantum Computing Solutions Market Size Overview by Technology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Technology

6.2.1 Superconducting Quantum Bits

6.2.2 Ion Trap Quantum Bits

6.2.3 Photonic Quantum Bits

6.2.4 Topological Quantum Bits

6.3 Market Segment by Technology

6.3.1 World Commercial Quantum Computing Solutions Market Size by Technology (2021-2026)

6.3.2 World Commercial Quantum Computing Solutions Market Size by Technology (2027-2032)

6.3.3 World Commercial Quantum Computing Solutions Market Size Market Share by Technology (2027-2032)

## **7 MARKET ANALYSIS BY PRODUCT FORM**

7.1 World Commercial Quantum Computing Solutions Market Size Overview by Product Form: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Product Form

7.2.1 Quantum Simulation

7.2.2 Quantum Optimization

7.2.3 Quantum Encryption

7.2.4 Quantum Machine Learning

7.3 Market Segment by Product Form

7.3.1 World Commercial Quantum Computing Solutions Market Size by Product Form (2021-2026)

7.3.2 World Commercial Quantum Computing Solutions Market Size by Product Form (2027-2032)

7.3.3 World Commercial Quantum Computing Solutions Market Size Market Share by

Product Form (2027-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Commercial Quantum Computing Solutions Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Finance

8.2.2 Medical

8.2.3 Chemistry

8.2.4 Transportation

8.2.5 Manufacturing

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World Commercial Quantum Computing Solutions Market Size by Application (2021-2026)

8.3.2 World Commercial Quantum Computing Solutions Market Size by Application (2027-2032)

8.3.3 World Commercial Quantum Computing Solutions Market Size Market Share by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 D-Wave Solutions

9.1.1 D-Wave Solutions Details

9.1.2 D-Wave Solutions Major Business

9.1.3 D-Wave Solutions Commercial Quantum Computing Solutions Product and Services

9.1.4 D-Wave Solutions Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 D-Wave Solutions Recent Developments/Updates

9.1.6 D-Wave Solutions Competitive Strengths & Weaknesses

9.2 IBM

9.2.1 IBM Details

9.2.2 IBM Major Business

9.2.3 IBM Commercial Quantum Computing Solutions Product and Services

9.2.4 IBM Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.2.5 IBM Recent Developments/Updates

## 9.2.6 IBM Competitive Strengths & Weaknesses

## 9.3 Google

### 9.3.1 Google Details

### 9.3.2 Google Major Business

### 9.3.3 Google Commercial Quantum Computing Solutions Product and Services

### 9.3.4 Google Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)

### 9.3.5 Google Recent Developments/Updates

### 9.3.6 Google Competitive Strengths & Weaknesses

## 9.4 Microsoft

### 9.4.1 Microsoft Details

### 9.4.2 Microsoft Major Business

### 9.4.3 Microsoft Commercial Quantum Computing Solutions Product and Services

### 9.4.4 Microsoft Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)

### 9.4.5 Microsoft Recent Developments/Updates

### 9.4.6 Microsoft Competitive Strengths & Weaknesses

## 9.5 Rigetti Computing

### 9.5.1 Rigetti Computing Details

### 9.5.2 Rigetti Computing Major Business

### 9.5.3 Rigetti Computing Commercial Quantum Computing Solutions Product and Services

### 9.5.4 Rigetti Computing Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)

### 9.5.5 Rigetti Computing Recent Developments/Updates

### 9.5.6 Rigetti Computing Competitive Strengths & Weaknesses

## 9.6 Intel

### 9.6.1 Intel Details

### 9.6.2 Intel Major Business

### 9.6.3 Intel Commercial Quantum Computing Solutions Product and Services

### 9.6.4 Intel Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)

### 9.6.5 Intel Recent Developments/Updates

### 9.6.6 Intel Competitive Strengths & Weaknesses

## 9.7 Origin Quantum Computing Technology

### 9.7.1 Origin Quantum Computing Technology Details

### 9.7.2 Origin Quantum Computing Technology Major Business

### 9.7.3 Origin Quantum Computing Technology Commercial Quantum Computing Solutions Product and Services

- 9.7.4 Origin Quantum Computing Technology Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)
- 9.7.5 Origin Quantum Computing Technology Recent Developments/Updates
- 9.7.6 Origin Quantum Computing Technology Competitive Strengths & Weaknesses
- 9.8 Anyon Systems Inc.
  - 9.8.1 Anyon Systems Inc. Details
  - 9.8.2 Anyon Systems Inc. Major Business
  - 9.8.3 Anyon Systems Inc. Commercial Quantum Computing Solutions Product and Services
  - 9.8.4 Anyon Systems Inc. Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Anyon Systems Inc. Recent Developments/Updates
  - 9.8.6 Anyon Systems Inc. Competitive Strengths & Weaknesses
- 9.9 Cambridge Quantum Computing Limited
  - 9.9.1 Cambridge Quantum Computing Limited Details
  - 9.9.2 Cambridge Quantum Computing Limited Major Business
  - 9.9.3 Cambridge Quantum Computing Limited Commercial Quantum Computing Solutions Product and Services
  - 9.9.4 Cambridge Quantum Computing Limited Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Cambridge Quantum Computing Limited Recent Developments/Updates
  - 9.9.6 Cambridge Quantum Computing Limited Competitive Strengths & Weaknesses
- 9.10 Quantum Computing Inc.
  - 9.10.1 Quantum Computing Inc. Details
  - 9.10.2 Quantum Computing Inc. Major Business
  - 9.10.3 Quantum Computing Inc. Commercial Quantum Computing Solutions Product and Services
  - 9.10.4 Quantum Computing Inc. Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Quantum Computing Inc. Recent Developments/Updates
  - 9.10.6 Quantum Computing Inc. Competitive Strengths & Weaknesses
- 9.11 ColdQuanta
  - 9.11.1 ColdQuanta Details
  - 9.11.2 ColdQuanta Major Business
  - 9.11.3 ColdQuanta Commercial Quantum Computing Solutions Product and Services
  - 9.11.4 ColdQuanta Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)
  - 9.11.5 ColdQuanta Recent Developments/Updates
  - 9.11.6 ColdQuanta Competitive Strengths & Weaknesses

## 9.12 1QBit

### 9.12.1 1QBit Details

### 9.12.2 1QBit Major Business

### 9.12.3 1QBit Commercial Quantum Computing Solutions Product and Services

### 9.12.4 1QBit Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)

### 9.12.5 1QBit Recent Developments/Updates

### 9.12.6 1QBit Competitive Strengths & Weaknesses

## 9.13 Xanadu Quantum Technologies

### 9.13.1 Xanadu Quantum Technologies Details

### 9.13.2 Xanadu Quantum Technologies Major Business

### 9.13.3 Xanadu Quantum Technologies Commercial Quantum Computing Solutions Product and Services

### 9.13.4 Xanadu Quantum Technologies Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)

### 9.13.5 Xanadu Quantum Technologies Recent Developments/Updates

### 9.13.6 Xanadu Quantum Technologies Competitive Strengths & Weaknesses

## 9.14 Honeywell

### 9.14.1 Honeywell Details

### 9.14.2 Honeywell Major Business

### 9.14.3 Honeywell Commercial Quantum Computing Solutions Product and Services

### 9.14.4 Honeywell Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)

### 9.14.5 Honeywell Recent Developments/Updates

### 9.14.6 Honeywell Competitive Strengths & Weaknesses

## 9.15 Zapata Computing

### 9.15.1 Zapata Computing Details

### 9.15.2 Zapata Computing Major Business

### 9.15.3 Zapata Computing Commercial Quantum Computing Solutions Product and Services

### 9.15.4 Zapata Computing Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)

### 9.15.5 Zapata Computing Recent Developments/Updates

### 9.15.6 Zapata Computing Competitive Strengths & Weaknesses

## 9.16 Fujitsu

### 9.16.1 Fujitsu Details

### 9.16.2 Fujitsu Major Business

### 9.16.3 Fujitsu Commercial Quantum Computing Solutions Product and Services

### 9.16.4 Fujitsu Commercial Quantum Computing Solutions Revenue, Gross Margin and

## Market Share (2021-2026)

9.16.5 Fujitsu Recent Developments/Updates

9.16.6 Fujitsu Competitive Strengths & Weaknesses

## 9.17 QC Ware

9.17.1 QC Ware Details

9.17.2 QC Ware Major Business

9.17.3 QC Ware Commercial Quantum Computing Solutions Product and Services

9.17.4 QC Ware Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.17.5 QC Ware Recent Developments/Updates

9.17.6 QC Ware Competitive Strengths & Weaknesses

## 9.18 Ion Q

9.18.1 Ion Q Details

9.18.2 Ion Q Major Business

9.18.3 Ion Q Commercial Quantum Computing Solutions Product and Services

9.18.4 Ion Q Commercial Quantum Computing Solutions Revenue, Gross Margin and Market Share (2021-2026)

9.18.5 Ion Q Recent Developments/Updates

9.18.6 Ion Q Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 Commercial Quantum Computing Solutions Industry Chain

10.2 Commercial Quantum Computing Solutions Upstream Analysis

10.3 Commercial Quantum Computing Solutions Midstream Analysis

10.4 Commercial Quantum Computing Solutions Downstream Analysis

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. World Thermally Expandable Microspheres Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Thermally Expandable Microspheres Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Thermally Expandable Microspheres Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Thermally Expandable Microspheres Production Value Market Share by Region (2021-2026)
- Table 5. World Thermally Expandable Microspheres Production Value Market Share by Region (2027-2032)
- Table 6. World Thermally Expandable Microspheres Production by Region (2021-2026) & (Tons)
- Table 7. World Thermally Expandable Microspheres Production by Region (2027-2032) & (Tons)
- Table 8. World Thermally Expandable Microspheres Production Market Share by Region (2021-2026)
- Table 9. World Thermally Expandable Microspheres Production Market Share by Region (2027-2032)
- Table 10. World Thermally Expandable Microspheres Average Price by Region (2021-2026) & (US\$/Ton)
- Table 11. World Thermally Expandable Microspheres Average Price by Region (2027-2032) & (US\$/Ton)
- Table 12. Thermally Expandable Microspheres Major Market Trends
- Table 13. World Thermally Expandable Microspheres Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)
- Table 14. World Thermally Expandable Microspheres Consumption by Region (2021-2026) & (Tons)
- Table 15. World Thermally Expandable Microspheres Consumption Forecast by Region (2027-2032) & (Tons)
- Table 16. World Thermally Expandable Microspheres Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Thermally Expandable Microspheres Producers in 2025
- Table 18. World Thermally Expandable Microspheres Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Thermally Expandable Microspheres Producers in 2025

Table 20. World Thermally Expandable Microspheres Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Thermally Expandable Microspheres Company Evaluation Quadrant

Table 22. World Thermally Expandable Microspheres Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Thermally Expandable Microspheres Production Site of Key Manufacturer

Table 24. Thermally Expandable Microspheres Market: Company Product Type Footprint

Table 25. Thermally Expandable Microspheres Market: Company Product Application Footprint

Table 26. Thermally Expandable Microspheres Competitive Factors

Table 27. Thermally Expandable Microspheres New Entrant and Capacity Expansion Plans

Table 28. Thermally Expandable Microspheres Mergers & Acquisitions Activity

Table 29. United States VS China Thermally Expandable Microspheres Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Thermally Expandable Microspheres Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Thermally Expandable Microspheres Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Thermally Expandable Microspheres Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Thermally Expandable Microspheres Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Thermally Expandable Microspheres Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Thermally Expandable Microspheres Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Thermally Expandable Microspheres Production Market Share (2021-2026)

Table 37. China Based Thermally Expandable Microspheres Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Thermally Expandable Microspheres Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Thermally Expandable Microspheres Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Thermally Expandable Microspheres Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Thermally Expandable Microspheres Production Market Share (2021-2026)

Table 42. Rest of World Based Thermally Expandable Microspheres Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Thermally Expandable Microspheres Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Thermally Expandable Microspheres Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Thermally Expandable Microspheres Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Thermally Expandable Microspheres Production Market Share (2021-2026)

Table 47. World Thermally Expandable Microspheres Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Thermally Expandable Microspheres Production by Type (2021-2026) & (Tons)

Table 49. World Thermally Expandable Microspheres Production by Type (2027-2032) & (Tons)

Table 50. World Thermally Expandable Microspheres Production Value by Type (2021-2026) & (USD Million)

Table 51. World Thermally Expandable Microspheres Production Value by Type (2027-2032) & (USD Million)

Table 52. World Thermally Expandable Microspheres Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Thermally Expandable Microspheres Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Thermally Expandable Microspheres Production Value by Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Thermally Expandable Microspheres Production by Form (2021-2026) & (Tons)

Table 56. World Thermally Expandable Microspheres Production by Form (2027-2032) & (Tons)

Table 57. World Thermally Expandable Microspheres Production Value by Form (2021-2026) & (USD Million)

Table 58. World Thermally Expandable Microspheres Production Value by Form (2027-2032) & (USD Million)

Table 59. World Thermally Expandable Microspheres Average Price by Form

(2021-2026) & (US\$/Ton)

Table 60. World Thermally Expandable Microspheres Average Price by Form

(2027-2032) & (US\$/Ton)

Table 61. World Thermally Expandable Microspheres Production Value by Particle Size, (USD Million), 2021 & 2025 & 2032

Table 62. World Thermally Expandable Microspheres Production by Particle Size (2021-2026) & (Tons)

Table 63. World Thermally Expandable Microspheres Production by Particle Size (2027-2032) & (Tons)

Table 64. World Thermally Expandable Microspheres Production Value by Particle Size (2021-2026) & (USD Million)

Table 65. World Thermally Expandable Microspheres Production Value by Particle Size (2027-2032) & (USD Million)

Table 66. World Thermally Expandable Microspheres Average Price by Particle Size (2021-2026) & (US\$/Ton)

Table 67. World Thermally Expandable Microspheres Average Price by Particle Size (2027-2032) & (US\$/Ton)

Table 68. World Thermally Expandable Microspheres Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Thermally Expandable Microspheres Production by Application (2021-2026) & (Tons)

Table 70. World Thermally Expandable Microspheres Production by Application (2027-2032) & (Tons)

Table 71. World Thermally Expandable Microspheres Production Value by Application (2021-2026) & (USD Million)

Table 72. World Thermally Expandable Microspheres Production Value by Application (2027-2032) & (USD Million)

Table 73. World Thermally Expandable Microspheres Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Thermally Expandable Microspheres Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Nouryon Basic Information, Manufacturing Base and Competitors

Table 76. Nouryon Major Business

Table 77. Nouryon Thermally Expandable Microspheres Product and Services

Table 78. Nouryon Thermally Expandable Microspheres Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Nouryon Recent Developments/Updates

Table 80. Nouryon Competitive Strengths & Weaknesses

- Table 81. Kumyang Basic Information, Manufacturing Base and Competitors
- Table 82. Kumyang Major Business
- Table 83. Kumyang Thermally Expandable Microspheres Product and Services
- Table 84. Kumyang Thermally Expandable Microspheres Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Kumyang Recent Developments/Updates
- Table 86. Kumyang Competitive Strengths & Weaknesses
- Table 87. Dongjin Semichem Basic Information, Manufacturing Base and Competitors
- Table 88. Dongjin Semichem Major Business
- Table 89. Dongjin Semichem Thermally Expandable Microspheres Product and Services
- Table 90. Dongjin Semichem Thermally Expandable Microspheres Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Dongjin Semichem Recent Developments/Updates
- Table 92. Dongjin Semichem Competitive Strengths & Weaknesses
- Table 93. SEKISUI Basic Information, Manufacturing Base and Competitors
- Table 94. SEKISUI Major Business
- Table 95. SEKISUI Thermally Expandable Microspheres Product and Services
- Table 96. SEKISUI Thermally Expandable Microspheres Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. SEKISUI Recent Developments/Updates
- Table 98. SEKISUI Competitive Strengths & Weaknesses
- Table 99. Matsumoto Yushi-Seiyaku Basic Information, Manufacturing Base and Competitors
- Table 100. Matsumoto Yushi-Seiyaku Major Business
- Table 101. Matsumoto Yushi-Seiyaku Thermally Expandable Microspheres Product and Services
- Table 102. Matsumoto Yushi-Seiyaku Thermally Expandable Microspheres Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Matsumoto Yushi-Seiyaku Recent Developments/Updates
- Table 104. Matsumoto Yushi-Seiyaku Competitive Strengths & Weaknesses
- Table 105. Kureha Basic Information, Manufacturing Base and Competitors
- Table 106. Kureha Major Business
- Table 107. Kureha Thermally Expandable Microspheres Product and Services
- Table 108. Kureha Thermally Expandable Microspheres Production (Tons), Price

(US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Kureha Recent Developments/Updates

Table 110. Kureha Competitive Strengths & Weaknesses

Table 111. Chase Corporation Basic Information, Manufacturing Base and Competitors

Table 112. Chase Corporation Major Business

Table 113. Chase Corporation Thermally Expandable Microspheres Product and Services

Table 114. Chase Corporation Thermally Expandable Microspheres Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Chase Corporation Recent Developments/Updates

Table 116. Chase Corporation Competitive Strengths & Weaknesses

Table 117. Crerax Basic Information, Manufacturing Base and Competitors

Table 118. Crerax Major Business

Table 119. Crerax Thermally Expandable Microspheres Product and Services

Table 120. Crerax Thermally Expandable Microspheres Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Crerax Recent Developments/Updates

Table 122. Crerax Competitive Strengths & Weaknesses

Table 123. Hunan Farida Basic Information, Manufacturing Base and Competitors

Table 124. Hunan Farida Major Business

Table 125. Hunan Farida Thermally Expandable Microspheres Product and Services

Table 126. Hunan Farida Thermally Expandable Microspheres Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Hunan Farida Recent Developments/Updates

Table 128. Hunan Farida Competitive Strengths & Weaknesses

Table 129. Yunyan Materials Science Basic Information, Manufacturing Base and Competitors

Table 130. Yunyan Materials Science Major Business

Table 131. Yunyan Materials Science Thermally Expandable Microspheres Product and Services

Table 132. Yunyan Materials Science Thermally Expandable Microspheres Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Yunyan Materials Science Recent Developments/Updates

Table 134. Yunyan Materials Science Competitive Strengths & Weaknesses

- Table 135. Hytitan Basic Information, Manufacturing Base and Competitors
- Table 136. Hytitan Major Business
- Table 137. Hytitan Thermally Expandable Microspheres Product and Services
- Table 138. Hytitan Thermally Expandable Microspheres Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Hytitan Recent Developments/Updates
- Table 140. Hytitan Competitive Strengths & Weaknesses
- Table 141. Zhejiang Shuntai Rubber and Plastic Technology Basic Information, Manufacturing Base and Competitors
- Table 142. Zhejiang Shuntai Rubber and Plastic Technology Major Business
- Table 143. Zhejiang Shuntai Rubber and Plastic Technology Thermally Expandable Microspheres Product and Services
- Table 144. Zhejiang Shuntai Rubber and Plastic Technology Thermally Expandable Microspheres Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Zhejiang Shuntai Rubber and Plastic Technology Recent Developments/Updates
- Table 146. Zhejiang Shuntai Rubber and Plastic Technology Competitive Strengths & Weaknesses
- Table 147. Global Key Players of Thermally Expandable Microspheres Upstream (Raw Materials)
- Table 148. Global Thermally Expandable Microspheres Typical Customers
- Table 149. Thermally Expandable Microspheres Typical Distributors

## List Of Figures

### LIST OF FIGURES

- Figure 1. Thermally Expandable Microspheres Picture
- Figure 2. World Thermally Expandable Microspheres Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Thermally Expandable Microspheres Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Thermally Expandable Microspheres Production (2021-2032) & (Tons)
- Figure 5. World Thermally Expandable Microspheres Average Price (2021-2032) & (US\$/Ton)
- Figure 6. World Thermally Expandable Microspheres Production Value Market Share by Region (2021-2032)
- Figure 7. World Thermally Expandable Microspheres Production Market Share by Region (2021-2032)
- Figure 8. North America Thermally Expandable Microspheres Production (2021-2032) & (Tons)
- Figure 9. Europe Thermally Expandable Microspheres Production (2021-2032) & (Tons)
- Figure 10. China Thermally Expandable Microspheres Production (2021-2032) & (Tons)
- Figure 11. Japan Thermally Expandable Microspheres Production (2021-2032) & (Tons)
- Figure 12. Thermally Expandable Microspheres Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Thermally Expandable Microspheres Consumption (2021-2032) & (Tons)
- Figure 15. World Thermally Expandable Microspheres Consumption Market Share by Region (2021-2032)
- Figure 16. United States Thermally Expandable Microspheres Consumption (2021-2032) & (Tons)
- Figure 17. China Thermally Expandable Microspheres Consumption (2021-2032) & (Tons)
- Figure 18. Europe Thermally Expandable Microspheres Consumption (2021-2032) & (Tons)
- Figure 19. Japan Thermally Expandable Microspheres Consumption (2021-2032) & (Tons)
- Figure 20. South Korea Thermally Expandable Microspheres Consumption (2021-2032) & (Tons)
- Figure 21. ASEAN Thermally Expandable Microspheres Consumption (2021-2032) & (Tons)

Figure 22. India Thermally Expandable Microspheres Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Thermally Expandable Microspheres by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Thermally Expandable Microspheres Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Thermally Expandable Microspheres Markets in 2025

Figure 26. United States VS China: Thermally Expandable Microspheres Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Thermally Expandable Microspheres Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Thermally Expandable Microspheres Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Thermally Expandable Microspheres Production Market Share 2025

Figure 30. China Based Manufacturers Thermally Expandable Microspheres Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Thermally Expandable Microspheres Production Market Share 2025

Figure 32. World Thermally Expandable Microspheres Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Thermally Expandable Microspheres Production Value Market Share by Type in 2025

Figure 34. Low Temperature Expansion Type

Figure 35. Medium Temperature Expansion Type

Figure 36. High Temperature Expansion Type

Figure 37. Ultra High Temperature Expansion Type

Figure 38. World Thermally Expandable Microspheres Production Market Share by Type (2021-2032)

Figure 39. World Thermally Expandable Microspheres Production Value Market Share by Type (2021-2032)

Figure 40. World Thermally Expandable Microspheres Average Price by Type (2021-2032) & (US\$/Ton)

Figure 41. World Thermally Expandable Microspheres Production Value by Form, (USD Million), 2021 & 2025 & 2032

Figure 42. World Thermally Expandable Microspheres Production Value Market Share by Form in 2025

Figure 43. Unexpanded

Figure 44. Pre-expanded

Figure 45. World Thermally Expandable Microspheres Production Market Share by Form (2021-2032)

Figure 46. World Thermally Expandable Microspheres Production Value Market Share by Form (2021-2032)

Figure 47. World Thermally Expandable Microspheres Average Price by Form (2021-2032) & (US\$/Ton)

Figure 48. World Thermally Expandable Microspheres Production Value by Particle Size, (USD Million), 2021 & 2025 & 2032

Figure 49. World Thermally Expandable Microspheres Production Value Market Share by Particle Size in 2025

Figure 50. 5-15  $\mu$ m

Figure 51. 20-40  $\mu$ m

Figure 52. Other

Figure 53. World Thermally Expandable Microspheres Production Market Share by Particle Size (2021-2032)

Figure 54. World Thermally Expandable Microspheres Production Value Market Share by Particle Size (2021-2032)

Figure 55. World Thermally Expandable Microspheres Average Price by Particle Size (2021-2032) & (US\$/Ton)

Figure 56. World Thermally Expandable Microspheres Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Thermally Expandable Microspheres Production Value Market Share by Application in 2025

Figure 58. Plastics

Figure 59. Inks and Coatings

Figure 60. Adhesives

Figure 61. Construction

Figure 62. Other

Figure 63. World Thermally Expandable Microspheres Production Market Share by Application (2021-2032)

Figure 64. World Thermally Expandable Microspheres Production Value Market Share by Application (2021-2032)

Figure 65. World Thermally Expandable Microspheres Average Price by Application (2021-2032) & (US\$/Ton)

Figure 66. Thermally Expandable Microspheres Industry Chain

Figure 67. Thermally Expandable Microspheres Procurement Model

Figure 68. Thermally Expandable Microspheres Sales Model

Figure 69. Thermally Expandable Microspheres Sales Channels, Direct Sales, and

Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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