

Global Heat Storage Ceramic Honeycomb Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Heat Storage Ceramic Honeycomb market size was valued at US\$ 656 million in 2025 and is forecast to a readjusted size of US\$ 1134 million by 2032 with a CAGR of 8.1% during review period.

In 2025, global production of heat storage ceramic honeycomb reached approximately 580,000 tons, with an average selling price of USD 1,100 per ton, total production capacity of about 700,000 tons, and an average gross margin of around 30%.

Heat Storage Ceramic Honeycomb refers to a functional heat storage material made of high-temperature-resistant ceramics such as cordierite and mullite, featuring a regular honeycomb channel structure. It is mainly used in regenerative combustion systems (RTO/RCO, regenerative burners) and high-temperature industrial furnaces. By alternating gas flow through the honeycomb channels, it enables efficient heat absorption, storage, and release, significantly improving thermal efficiency and reducing fuel consumption, while offering excellent thermal shock resistance, low pressure drop, and long service life.

Upstream segments mainly include suppliers of ceramic raw materials such as alumina, talc, magnesia, and clay, as well as providers of honeycomb extrusion dies and high-temperature firing equipment. The purity and formulation stability of raw materials directly affect heat storage performance and service life. The midstream consists of manufacturers of heat storage ceramic honeycombs, responsible for formulation design, honeycomb forming, drying, and high-temperature sintering. Downstream users include industrial furnace manufacturers, environmental equipment integrators, and end-users in industries such as steel, glass, building materials, non-ferrous metals, and chemicals.

This report is a detailed and comprehensive analysis for global Heat Storage Ceramic Honeycomb market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Heat Storage Ceramic Honeycomb market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Heat Storage Ceramic Honeycomb market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Heat Storage Ceramic Honeycomb market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Heat Storage Ceramic Honeycomb market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Heat Storage Ceramic Honeycomb
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Heat Storage Ceramic Honeycomb market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ibiden, Rauschert, Kerui Group, AOFU, Rongjian Environmental Protection Chemical Filler, Jiangxi Kelley Chemical Packing, BoCent, Henan Huaxin Kiln Engineering Technology, CS CERAMIC,

PINGXIANG HONGLI ENVIRONMENTAL TECHNOLOGY, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Heat Storage Ceramic Honeycomb market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Honeycomb for Regenerative Combustion Systems

Honeycomb for Industrial Furnaces & Heat Treatment

Market segment by Material Composition

Cordierite Honeycomb Ceramic

Mullite Honeycomb Ceramic

Market segment by Operating Temperature

Medium-temperature Heat Storage Honeycomb

High-temperature Heat Storage Honeycomb

Market segment by Cell Structure

Small Cell Density High Surface Area Honeycomb

Large Cell Density Low Pressure Drop Honeycomb

Market segment by Application

Steel Plant

Waste Incineration Plant

Chemical Plant

Power Plant

Others

Major players covered

Ibiden

Rauschert

Kerui Group

AOFU

Rongjian Environmental Protection Chemical Filler

Jiangxi Kelley Chemical Packing

BoCent

Henan Huaxin Kiln Engineering Technology

CS CERAMIC

PINGXIANG HONGLI ENVIRONMENTAL TECHNOLOGY

JIANGXI VODA CHEMICAL

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Heat Storage Ceramic Honeycomb product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Heat Storage Ceramic Honeycomb, with price, sales quantity, revenue, and global market share of Heat Storage Ceramic Honeycomb from 2021 to 2026.

Chapter 3, the Heat Storage Ceramic Honeycomb competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Heat Storage Ceramic Honeycomb breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Heat Storage Ceramic Honeycomb market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Heat Storage Ceramic Honeycomb.

Chapter 14 and 15, to describe Heat Storage Ceramic Honeycomb sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Heat Storage Ceramic Honeycomb Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Honeycomb for Regenerative Combustion Systems

1.3.3 Honeycomb for Industrial Furnaces & Heat Treatment

1.4 Market Analysis by Material Composition

1.4.1 Overview: Global Heat Storage Ceramic Honeycomb Consumption Value by Material Composition: 2021 Versus 2025 Versus 2032

1.4.2 Cordierite Honeycomb Ceramic

1.4.3 Mullite Honeycomb Ceramic

1.5 Market Analysis by Operating Temperature

1.5.1 Overview: Global Heat Storage Ceramic Honeycomb Consumption Value by Operating Temperature: 2021 Versus 2025 Versus 2032

1.5.2 Medium-temperature Heat Storage Honeycomb

1.5.3 High-temperature Heat Storage Honeycomb

1.6 Market Analysis by Cell Structure

1.6.1 Overview: Global Heat Storage Ceramic Honeycomb Consumption Value by Cell Structure: 2021 Versus 2025 Versus 2032

1.6.2 Small Cell Density High Surface Area Honeycomb

1.6.3 Large Cell Density Low Pressure Drop Honeycomb

1.7 Market Analysis by Application

1.7.1 Overview: Global Heat Storage Ceramic Honeycomb Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 Steel Plant

1.7.3 Waste Incineration Plant

1.7.4 Chemical Plant

1.7.5 Power Plant

1.7.6 Others

1.8 Global Heat Storage Ceramic Honeycomb Market Size & Forecast

1.8.1 Global Heat Storage Ceramic Honeycomb Consumption Value (2021 & 2025 & 2032)

1.8.2 Global Heat Storage Ceramic Honeycomb Sales Quantity (2021-2032)

1.8.3 Global Heat Storage Ceramic Honeycomb Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Ibsiden

2.1.1 Ibsiden Details

2.1.2 Ibsiden Major Business

2.1.3 Ibsiden Heat Storage Ceramic Honeycomb Product and Services

2.1.4 Ibsiden Heat Storage Ceramic Honeycomb Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Ibsiden Recent Developments/Updates

2.2 Rauschert

2.2.1 Rauschert Details

2.2.2 Rauschert Major Business

2.2.3 Rauschert Heat Storage Ceramic Honeycomb Product and Services

2.2.4 Rauschert Heat Storage Ceramic Honeycomb Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Rauschert Recent Developments/Updates

2.3 Kerui Group

2.3.1 Kerui Group Details

2.3.2 Kerui Group Major Business

2.3.3 Kerui Group Heat Storage Ceramic Honeycomb Product and Services

2.3.4 Kerui Group Heat Storage Ceramic Honeycomb Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Kerui Group Recent Developments/Updates

2.4 AOFU

2.4.1 AOFU Details

2.4.2 AOFU Major Business

2.4.3 AOFU Heat Storage Ceramic Honeycomb Product and Services

2.4.4 AOFU Heat Storage Ceramic Honeycomb Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 AOFU Recent Developments/Updates

2.5 Rongjian Environmental Protection Chemical Filler

2.5.1 Rongjian Environmental Protection Chemical Filler Details

2.5.2 Rongjian Environmental Protection Chemical Filler Major Business

2.5.3 Rongjian Environmental Protection Chemical Filler Heat Storage Ceramic Honeycomb Product and Services

2.5.4 Rongjian Environmental Protection Chemical Filler Heat Storage Ceramic Honeycomb Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.5.5 Rongjian Environmental Protection Chemical Filler Recent Developments/Updates
- 2.6 Jiangxi Kelley Chemical Packing
 - 2.6.1 Jiangxi Kelley Chemical Packing Details
 - 2.6.2 Jiangxi Kelley Chemical Packing Major Business
 - 2.6.3 Jiangxi Kelley Chemical Packing Heat Storage Ceramic Honeycomb Product and Services
 - 2.6.4 Jiangxi Kelley Chemical Packing Heat Storage Ceramic Honeycomb Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Jiangxi Kelley Chemical Packing Recent Developments/Updates
- 2.7 BoCent
 - 2.7.1 BoCent Details
 - 2.7.2 BoCent Major Business
 - 2.7.3 BoCent Heat Storage Ceramic Honeycomb Product and Services
 - 2.7.4 BoCent Heat Storage Ceramic Honeycomb Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 BoCent Recent Developments/Updates
- 2.8 Henan Huaxin Kiln Engineering Technology
 - 2.8.1 Henan Huaxin Kiln Engineering Technology Details
 - 2.8.2 Henan Huaxin Kiln Engineering Technology Major Business
 - 2.8.3 Henan Huaxin Kiln Engineering Technology Heat Storage Ceramic Honeycomb Product and Services
 - 2.8.4 Henan Huaxin Kiln Engineering Technology Heat Storage Ceramic Honeycomb Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Henan Huaxin Kiln Engineering Technology Recent Developments/Updates
- 2.9 CS CERAMIC
 - 2.9.1 CS CERAMIC Details
 - 2.9.2 CS CERAMIC Major Business
 - 2.9.3 CS CERAMIC Heat Storage Ceramic Honeycomb Product and Services
 - 2.9.4 CS CERAMIC Heat Storage Ceramic Honeycomb Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 CS CERAMIC Recent Developments/Updates
- 2.10 PINGXIANG HONGLI ENVIRONMENTAL TECHNOLOGY
 - 2.10.1 PINGXIANG HONGLI ENVIRONMENTAL TECHNOLOGY Details
 - 2.10.2 PINGXIANG HONGLI ENVIRONMENTAL TECHNOLOGY Major Business
 - 2.10.3 PINGXIANG HONGLI ENVIRONMENTAL TECHNOLOGY Heat Storage Ceramic Honeycomb Product and Services
 - 2.10.4 PINGXIANG HONGLI ENVIRONMENTAL TECHNOLOGY Heat Storage Ceramic Honeycomb Sales Quantity, Average Price, Revenue, Gross Margin and

Market Share (2021-2026)

2.10.5 PINGXIANG HONGLI ENVIRONMENTAL TECHNOLOGY Recent Developments/Updates

2.11 JIANGXI VODA CHEMICAL

2.11.1 JIANGXI VODA CHEMICAL Details

2.11.2 JIANGXI VODA CHEMICAL Major Business

2.11.3 JIANGXI VODA CHEMICAL Heat Storage Ceramic Honeycomb Product and Services

2.11.4 JIANGXI VODA CHEMICAL Heat Storage Ceramic Honeycomb Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 JIANGXI VODA CHEMICAL Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: HEAT STORAGE CERAMIC HONEYCOMB BY MANUFACTURER

3.1 Global Heat Storage Ceramic Honeycomb Sales Quantity by Manufacturer (2021-2026)

3.2 Global Heat Storage Ceramic Honeycomb Revenue by Manufacturer (2021-2026)

3.3 Global Heat Storage Ceramic Honeycomb Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Heat Storage Ceramic Honeycomb by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Heat Storage Ceramic Honeycomb Manufacturer Market Share in 2025

3.4.3 Top 6 Heat Storage Ceramic Honeycomb Manufacturer Market Share in 2025

3.5 Heat Storage Ceramic Honeycomb Market: Overall Company Footprint Analysis

3.5.1 Heat Storage Ceramic Honeycomb Market: Region Footprint

3.5.2 Heat Storage Ceramic Honeycomb Market: Company Product Type Footprint

3.5.3 Heat Storage Ceramic Honeycomb Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Heat Storage Ceramic Honeycomb Market Size by Region

4.1.1 Global Heat Storage Ceramic Honeycomb Sales Quantity by Region (2021-2032)

4.1.2 Global Heat Storage Ceramic Honeycomb Consumption Value by Region

(2021-2032)

- 4.1.3 Global Heat Storage Ceramic Honeycomb Average Price by Region (2021-2032)
- 4.2 North America Heat Storage Ceramic Honeycomb Consumption Value (2021-2032)
- 4.3 Europe Heat Storage Ceramic Honeycomb Consumption Value (2021-2032)
- 4.4 Asia-Pacific Heat Storage Ceramic Honeycomb Consumption Value (2021-2032)
- 4.5 South America Heat Storage Ceramic Honeycomb Consumption Value (2021-2032)
- 4.6 Middle East & Africa Heat Storage Ceramic Honeycomb Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Heat Storage Ceramic Honeycomb Sales Quantity by Type (2021-2032)
- 5.2 Global Heat Storage Ceramic Honeycomb Consumption Value by Type (2021-2032)
- 5.3 Global Heat Storage Ceramic Honeycomb Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Heat Storage Ceramic Honeycomb Sales Quantity by Application (2021-2032)
- 6.2 Global Heat Storage Ceramic Honeycomb Consumption Value by Application (2021-2032)
- 6.3 Global Heat Storage Ceramic Honeycomb Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Heat Storage Ceramic Honeycomb Sales Quantity by Type (2021-2032)
- 7.2 North America Heat Storage Ceramic Honeycomb Sales Quantity by Application (2021-2032)
- 7.3 North America Heat Storage Ceramic Honeycomb Market Size by Country
 - 7.3.1 North America Heat Storage Ceramic Honeycomb Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Heat Storage Ceramic Honeycomb Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Heat Storage Ceramic Honeycomb Sales Quantity by Type (2021-2032)

8.2 Europe Heat Storage Ceramic Honeycomb Sales Quantity by Application (2021-2032)

8.3 Europe Heat Storage Ceramic Honeycomb Market Size by Country

8.3.1 Europe Heat Storage Ceramic Honeycomb Sales Quantity by Country (2021-2032)

8.3.2 Europe Heat Storage Ceramic Honeycomb Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Heat Storage Ceramic Honeycomb Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Heat Storage Ceramic Honeycomb Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Heat Storage Ceramic Honeycomb Market Size by Region

9.3.1 Asia-Pacific Heat Storage Ceramic Honeycomb Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Heat Storage Ceramic Honeycomb Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Heat Storage Ceramic Honeycomb Sales Quantity by Type (2021-2032)

10.2 South America Heat Storage Ceramic Honeycomb Sales Quantity by Application

(2021-2032)

10.3 South America Heat Storage Ceramic Honeycomb Market Size by Country

10.3.1 South America Heat Storage Ceramic Honeycomb Sales Quantity by Country
(2021-2032)

10.3.2 South America Heat Storage Ceramic Honeycomb Consumption Value by
Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Heat Storage Ceramic Honeycomb Sales Quantity by Type
(2021-2032)

11.2 Middle East & Africa Heat Storage Ceramic Honeycomb Sales Quantity by
Application (2021-2032)

11.3 Middle East & Africa Heat Storage Ceramic Honeycomb Market Size by Country

11.3.1 Middle East & Africa Heat Storage Ceramic Honeycomb Sales Quantity by
Country (2021-2032)

11.3.2 Middle East & Africa Heat Storage Ceramic Honeycomb Consumption Value by
Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Heat Storage Ceramic Honeycomb Market Drivers

12.2 Heat Storage Ceramic Honeycomb Market Restraints

12.3 Heat Storage Ceramic Honeycomb Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Heat Storage Ceramic Honeycomb and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Heat Storage Ceramic Honeycomb
- 13.3 Heat Storage Ceramic Honeycomb Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Heat Storage Ceramic Honeycomb Typical Distributors
- 14.3 Heat Storage Ceramic Honeycomb Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Heat Storage Ceramic Honeycomb Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Heat Storage Ceramic Honeycomb Consumption Value by Material Composition, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Heat Storage Ceramic Honeycomb Consumption Value by Operating Temperature, (USD Million), 2021 & 2025 & 2032
- Table 4. Global Heat Storage Ceramic Honeycomb Consumption Value by Cell Structure, (USD Million), 2021 & 2025 & 2032
- Table 5. Global Heat Storage Ceramic Honeycomb Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 6. Ividen Basic Information, Manufacturing Base and Competitors
- Table 7. Ividen Major Business
- Table 8. Ividen Heat Storage Ceramic Honeycomb Product and Services
- Table 9. Ividen Heat Storage Ceramic Honeycomb Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 10. Ividen Recent Developments/Updates
- Table 11. Rauschert Basic Information, Manufacturing Base and Competitors
- Table 12. Rauschert Major Business
- Table 13. Rauschert Heat Storage Ceramic Honeycomb Product and Services
- Table 14. Rauschert Heat Storage Ceramic Honeycomb Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 15. Rauschert Recent Developments/Updates
- Table 16. Kerui Group Basic Information, Manufacturing Base and Competitors
- Table 17. Kerui Group Major Business
- Table 18. Kerui Group Heat Storage Ceramic Honeycomb Product and Services
- Table 19. Kerui Group Heat Storage Ceramic Honeycomb Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 20. Kerui Group Recent Developments/Updates
- Table 21. AOFU Basic Information, Manufacturing Base and Competitors
- Table 22. AOFU Major Business
- Table 23. AOFU Heat Storage Ceramic Honeycomb Product and Services
- Table 24. AOFU Heat Storage Ceramic Honeycomb Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. AOFU Recent Developments/Updates

Table 26. Rongjian Environmental Protection Chemical Filler Basic Information, Manufacturing Base and Competitors

Table 27. Rongjian Environmental Protection Chemical Filler Major Business

Table 28. Rongjian Environmental Protection Chemical Filler Heat Storage Ceramic Honeycomb Product and Services

Table 29. Rongjian Environmental Protection Chemical Filler Heat Storage Ceramic Honeycomb Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. Rongjian Environmental Protection Chemical Filler Recent Developments/Updates

Table 31. Jiangxi Kelley Chemical Packing Basic Information, Manufacturing Base and Competitors

Table 32. Jiangxi Kelley Chemical Packing Major Business

Table 33. Jiangxi Kelley Chemical Packing Heat Storage Ceramic Honeycomb Product and Services

Table 34. Jiangxi Kelley Chemical Packing Heat Storage Ceramic Honeycomb Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. Jiangxi Kelley Chemical Packing Recent Developments/Updates

Table 36. BoCent Basic Information, Manufacturing Base and Competitors

Table 37. BoCent Major Business

Table 38. BoCent Heat Storage Ceramic Honeycomb Product and Services

Table 39. BoCent Heat Storage Ceramic Honeycomb Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. BoCent Recent Developments/Updates

Table 41. Henan Huaxin Kiln Engineering Technology Basic Information, Manufacturing Base and Competitors

Table 42. Henan Huaxin Kiln Engineering Technology Major Business

Table 43. Henan Huaxin Kiln Engineering Technology Heat Storage Ceramic Honeycomb Product and Services

Table 44. Henan Huaxin Kiln Engineering Technology Heat Storage Ceramic Honeycomb Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. Henan Huaxin Kiln Engineering Technology Recent Developments/Updates

Table 46. CS CERAMIC Basic Information, Manufacturing Base and Competitors

Table 47. CS CERAMIC Major Business

Table 48. CS CERAMIC Heat Storage Ceramic Honeycomb Product and Services

Table 49. CS CERAMIC Heat Storage Ceramic Honeycomb Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 50. CS CERAMIC Recent Developments/Updates

Table 51. PINGXIANG HONGLI ENVIRONMENTAL TECHNOLOGY Basic Information, Manufacturing Base and Competitors

Table 52. PINGXIANG HONGLI ENVIRONMENTAL TECHNOLOGY Major Business

Table 53. PINGXIANG HONGLI ENVIRONMENTAL TECHNOLOGY Heat Storage Ceramic Honeycomb Product and Services

Table 54. PINGXIANG HONGLI ENVIRONMENTAL TECHNOLOGY Heat Storage Ceramic Honeycomb Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 55. PINGXIANG HONGLI ENVIRONMENTAL TECHNOLOGY Recent Developments/Updates

Table 56. JIANGXI VODA CHEMICAL Basic Information, Manufacturing Base and Competitors

Table 57. JIANGXI VODA CHEMICAL Major Business

Table 58. JIANGXI VODA CHEMICAL Heat Storage Ceramic Honeycomb Product and Services

Table 59. JIANGXI VODA CHEMICAL Heat Storage Ceramic Honeycomb Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 60. JIANGXI VODA CHEMICAL Recent Developments/Updates

Table 61. Global Heat Storage Ceramic Honeycomb Sales Quantity by Manufacturer (2021-2026) & (Kilotons)

Table 62. Global Heat Storage Ceramic Honeycomb Revenue by Manufacturer (2021-2026) & (USD Million)

Table 63. Global Heat Storage Ceramic Honeycomb Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 64. Market Position of Manufacturers in Heat Storage Ceramic Honeycomb, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 65. Head Office and Heat Storage Ceramic Honeycomb Production Site of Key Manufacturer

Table 66. Heat Storage Ceramic Honeycomb Market: Company Product Type Footprint

Table 67. Heat Storage Ceramic Honeycomb Market: Company Product Application Footprint

Table 68. Heat Storage Ceramic Honeycomb New Market Entrants and Barriers to Market Entry

Table 69. Heat Storage Ceramic Honeycomb Mergers, Acquisition, Agreements, and

Collaborations

Table 70. Global Heat Storage Ceramic Honeycomb Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 71. Global Heat Storage Ceramic Honeycomb Sales Quantity by Region (2021-2026) & (Kilotons)

Table 72. Global Heat Storage Ceramic Honeycomb Sales Quantity by Region (2027-2032) & (Kilotons)

Table 73. Global Heat Storage Ceramic Honeycomb Consumption Value by Region (2021-2026) & (USD Million)

Table 74. Global Heat Storage Ceramic Honeycomb Consumption Value by Region (2027-2032) & (USD Million)

Table 75. Global Heat Storage Ceramic Honeycomb Average Price by Region (2021-2026) & (US\$/Ton)

Table 76. Global Heat Storage Ceramic Honeycomb Average Price by Region (2027-2032) & (US\$/Ton)

Table 77. Global Heat Storage Ceramic Honeycomb Sales Quantity by Type (2021-2026) & (Kilotons)

Table 78. Global Heat Storage Ceramic Honeycomb Sales Quantity by Type (2027-2032) & (Kilotons)

Table 79. Global Heat Storage Ceramic Honeycomb Consumption Value by Type (2021-2026) & (USD Million)

Table 80. Global Heat Storage Ceramic Honeycomb Consumption Value by Type (2027-2032) & (USD Million)

Table 81. Global Heat Storage Ceramic Honeycomb Average Price by Type (2021-2026) & (US\$/Ton)

Table 82. Global Heat Storage Ceramic Honeycomb Average Price by Type (2027-2032) & (US\$/Ton)

Table 83. Global Heat Storage Ceramic Honeycomb Sales Quantity by Application (2021-2026) & (Kilotons)

Table 84. Global Heat Storage Ceramic Honeycomb Sales Quantity by Application (2027-2032) & (Kilotons)

Table 85. Global Heat Storage Ceramic Honeycomb Consumption Value by Application (2021-2026) & (USD Million)

Table 86. Global Heat Storage Ceramic Honeycomb Consumption Value by Application (2027-2032) & (USD Million)

Table 87. Global Heat Storage Ceramic Honeycomb Average Price by Application (2021-2026) & (US\$/Ton)

Table 88. Global Heat Storage Ceramic Honeycomb Average Price by Application (2027-2032) & (US\$/Ton)

Table 89. North America Heat Storage Ceramic Honeycomb Sales Quantity by Type (2021-2026) & (Kilotons)

Table 90. North America Heat Storage Ceramic Honeycomb Sales Quantity by Type (2027-2032) & (Kilotons)

Table 91. North America Heat Storage Ceramic Honeycomb Sales Quantity by Application (2021-2026) & (Kilotons)

Table 92. North America Heat Storage Ceramic Honeycomb Sales Quantity by Application (2027-2032) & (Kilotons)

Table 93. North America Heat Storage Ceramic Honeycomb Sales Quantity by Country (2021-2026) & (Kilotons)

Table 94. North America Heat Storage Ceramic Honeycomb Sales Quantity by Country (2027-2032) & (Kilotons)

Table 95. North America Heat Storage Ceramic Honeycomb Consumption Value by Country (2021-2026) & (USD Million)

Table 96. North America Heat Storage Ceramic Honeycomb Consumption Value by Country (2027-2032) & (USD Million)

Table 97. Europe Heat Storage Ceramic Honeycomb Sales Quantity by Type (2021-2026) & (Kilotons)

Table 98. Europe Heat Storage Ceramic Honeycomb Sales Quantity by Type (2027-2032) & (Kilotons)

Table 99. Europe Heat Storage Ceramic Honeycomb Sales Quantity by Application (2021-2026) & (Kilotons)

Table 100. Europe Heat Storage Ceramic Honeycomb Sales Quantity by Application (2027-2032) & (Kilotons)

Table 101. Europe Heat Storage Ceramic Honeycomb Sales Quantity by Country (2021-2026) & (Kilotons)

Table 102. Europe Heat Storage Ceramic Honeycomb Sales Quantity by Country (2027-2032) & (Kilotons)

Table 103. Europe Heat Storage Ceramic Honeycomb Consumption Value by Country (2021-2026) & (USD Million)

Table 104. Europe Heat Storage Ceramic Honeycomb Consumption Value by Country (2027-2032) & (USD Million)

Table 105. Asia-Pacific Heat Storage Ceramic Honeycomb Sales Quantity by Type (2021-2026) & (Kilotons)

Table 106. Asia-Pacific Heat Storage Ceramic Honeycomb Sales Quantity by Type (2027-2032) & (Kilotons)

Table 107. Asia-Pacific Heat Storage Ceramic Honeycomb Sales Quantity by Application (2021-2026) & (Kilotons)

Table 108. Asia-Pacific Heat Storage Ceramic Honeycomb Sales Quantity by

Application (2027-2032) & (Kilotons)

Table 109. Asia-Pacific Heat Storage Ceramic Honeycomb Sales Quantity by Region (2021-2026) & (Kilotons)

Table 110. Asia-Pacific Heat Storage Ceramic Honeycomb Sales Quantity by Region (2027-2032) & (Kilotons)

Table 111. Asia-Pacific Heat Storage Ceramic Honeycomb Consumption Value by Region (2021-2026) & (USD Million)

Table 112. Asia-Pacific Heat Storage Ceramic Honeycomb Consumption Value by Region (2027-2032) & (USD Million)

Table 113. South America Heat Storage Ceramic Honeycomb Sales Quantity by Type (2021-2026) & (Kilotons)

Table 114. South America Heat Storage Ceramic Honeycomb Sales Quantity by Type (2027-2032) & (Kilotons)

Table 115. South America Heat Storage Ceramic Honeycomb Sales Quantity by Application (2021-2026) & (Kilotons)

Table 116. South America Heat Storage Ceramic Honeycomb Sales Quantity by Application (2027-2032) & (Kilotons)

Table 117. South America Heat Storage Ceramic Honeycomb Sales Quantity by Country (2021-2026) & (Kilotons)

Table 118. South America Heat Storage Ceramic Honeycomb Sales Quantity by Country (2027-2032) & (Kilotons)

Table 119. South America Heat Storage Ceramic Honeycomb Consumption Value by Country (2021-2026) & (USD Million)

Table 120. South America Heat Storage Ceramic Honeycomb Consumption Value by Country (2027-2032) & (USD Million)

Table 121. Middle East & Africa Heat Storage Ceramic Honeycomb Sales Quantity by Type (2021-2026) & (Kilotons)

Table 122. Middle East & Africa Heat Storage Ceramic Honeycomb Sales Quantity by Type (2027-2032) & (Kilotons)

Table 123. Middle East & Africa Heat Storage Ceramic Honeycomb Sales Quantity by Application (2021-2026) & (Kilotons)

Table 124. Middle East & Africa Heat Storage Ceramic Honeycomb Sales Quantity by Application (2027-2032) & (Kilotons)

Table 125. Middle East & Africa Heat Storage Ceramic Honeycomb Sales Quantity by Country (2021-2026) & (Kilotons)

Table 126. Middle East & Africa Heat Storage Ceramic Honeycomb Sales Quantity by Country (2027-2032) & (Kilotons)

Table 127. Middle East & Africa Heat Storage Ceramic Honeycomb Consumption Value by Country (2021-2026) & (USD Million)

Table 128. Middle East & Africa Heat Storage Ceramic Honeycomb Consumption Value by Country (2027-2032) & (USD Million)

Table 129. Heat Storage Ceramic Honeycomb Raw Material

Table 130. Key Manufacturers of Heat Storage Ceramic Honeycomb Raw Materials

Table 131. Heat Storage Ceramic Honeycomb Typical Distributors

Table 132. Heat Storage Ceramic Honeycomb Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Heat Storage Ceramic Honeycomb Picture
- Figure 2. Global Heat Storage Ceramic Honeycomb Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Heat Storage Ceramic Honeycomb Revenue Market Share by Type in 2025
- Figure 4. Honeycomb for Regenerative Combustion Systems Examples
- Figure 5. Honeycomb for Industrial Furnaces & Heat Treatment Examples
- Figure 6. Global Heat Storage Ceramic Honeycomb Revenue by Material Composition, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Heat Storage Ceramic Honeycomb Revenue Market Share by Material Composition in 2025
- Figure 8. Cordierite Honeycomb Ceramic Examples
- Figure 9. Mullite Honeycomb Ceramic Examples
- Figure 10. Global Heat Storage Ceramic Honeycomb Revenue by Operating Temperature, (USD Million), 2021 & 2025 & 2032
- Figure 11. Global Heat Storage Ceramic Honeycomb Revenue Market Share by Operating Temperature in 2025
- Figure 12. Medium-temperature Heat Storage Honeycomb Examples
- Figure 13. High-temperature Heat Storage Honeycomb Examples
- Figure 14. Global Heat Storage Ceramic Honeycomb Revenue by Cell Structure, (USD Million), 2021 & 2025 & 2032
- Figure 15. Global Heat Storage Ceramic Honeycomb Revenue Market Share by Cell Structure in 2025
- Figure 16. Small Cell Density High Surface Area Honeycomb Examples
- Figure 17. Large Cell Density Low Pressure Drop Honeycomb Examples
- Figure 18. Global Heat Storage Ceramic Honeycomb Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 19. Global Heat Storage Ceramic Honeycomb Revenue Market Share by Application in 2025
- Figure 20. Steel Plant Examples
- Figure 21. Waste Incineration Plant Examples
- Figure 22. Chemical Plant Examples
- Figure 23. Power Plant Examples
- Figure 24. Others Examples
- Figure 25. Global Heat Storage Ceramic Honeycomb Consumption Value, (USD

Million): 2021 & 2025 & 2032

Figure 26. Global Heat Storage Ceramic Honeycomb Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 27. Global Heat Storage Ceramic Honeycomb Sales Quantity (2021-2032) & (Kilotons)

Figure 28. Global Heat Storage Ceramic Honeycomb Price (2021-2032) & (US\$/Ton)

Figure 29. Global Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Manufacturer in 2025

Figure 30. Global Heat Storage Ceramic Honeycomb Revenue Market Share by Manufacturer in 2025

Figure 31. Producer Shipments of Heat Storage Ceramic Honeycomb by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 32. Top 3 Heat Storage Ceramic Honeycomb Manufacturer (Revenue) Market Share in 2025

Figure 33. Top 6 Heat Storage Ceramic Honeycomb Manufacturer (Revenue) Market Share in 2025

Figure 34. Global Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Region (2021-2032)

Figure 35. Global Heat Storage Ceramic Honeycomb Consumption Value Market Share by Region (2021-2032)

Figure 36. North America Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 37. Europe Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 38. Asia-Pacific Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 39. South America Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 40. Middle East & Africa Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 41. Global Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Type (2021-2032)

Figure 42. Global Heat Storage Ceramic Honeycomb Consumption Value Market Share by Type (2021-2032)

Figure 43. Global Heat Storage Ceramic Honeycomb Average Price by Type (2021-2032) & (US\$/Ton)

Figure 44. Global Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Application (2021-2032)

Figure 45. Global Heat Storage Ceramic Honeycomb Revenue Market Share by

Application (2021-2032)

Figure 46. Global Heat Storage Ceramic Honeycomb Average Price by Application (2021-2032) & (US\$/Ton)

Figure 47. North America Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Type (2021-2032)

Figure 48. North America Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Application (2021-2032)

Figure 49. North America Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Country (2021-2032)

Figure 50. North America Heat Storage Ceramic Honeycomb Consumption Value Market Share by Country (2021-2032)

Figure 51. United States Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 52. Canada Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 53. Mexico Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 54. Europe Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Type (2021-2032)

Figure 55. Europe Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Application (2021-2032)

Figure 56. Europe Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Country (2021-2032)

Figure 57. Europe Heat Storage Ceramic Honeycomb Consumption Value Market Share by Country (2021-2032)

Figure 58. Germany Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 59. France Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 60. United Kingdom Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 61. Russia Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 62. Italy Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 63. Asia-Pacific Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Type (2021-2032)

Figure 64. Asia-Pacific Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Application (2021-2032)

Figure 65. Asia-Pacific Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Region (2021-2032)

Figure 66. Asia-Pacific Heat Storage Ceramic Honeycomb Consumption Value Market Share by Region (2021-2032)

Figure 67. China Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 68. Japan Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 69. South Korea Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 70. India Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 71. Southeast Asia Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 72. Australia Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 73. South America Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Type (2021-2032)

Figure 74. South America Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Application (2021-2032)

Figure 75. South America Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Country (2021-2032)

Figure 76. South America Heat Storage Ceramic Honeycomb Consumption Value Market Share by Country (2021-2032)

Figure 77. Brazil Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 78. Argentina Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 79. Middle East & Africa Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Type (2021-2032)

Figure 80. Middle East & Africa Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Application (2021-2032)

Figure 81. Middle East & Africa Heat Storage Ceramic Honeycomb Sales Quantity Market Share by Country (2021-2032)

Figure 82. Middle East & Africa Heat Storage Ceramic Honeycomb Consumption Value Market Share by Country (2021-2032)

Figure 83. Turkey Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 84. Egypt Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) &

(USD Million)

Figure 85. Saudi Arabia Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 86. South Africa Heat Storage Ceramic Honeycomb Consumption Value (2021-2032) & (USD Million)

Figure 87. Heat Storage Ceramic Honeycomb Market Drivers

Figure 88. Heat Storage Ceramic Honeycomb Market Restraints

Figure 89. Heat Storage Ceramic Honeycomb Market Trends

Figure 90. Porters Five Forces Analysis

Figure 91. Manufacturing Cost Structure Analysis of Heat Storage Ceramic Honeycomb in 2025

Figure 92. Manufacturing Process Analysis of Heat Storage Ceramic Honeycomb

Figure 93. Heat Storage Ceramic Honeycomb Industrial Chain

Figure 94. Sales Channel: Direct to End-User vs Distributors

Figure 95. Direct Channel Pros & Cons

Figure 96. Indirect Channel Pros & Cons

Figure 97. Methodology

Figure 98. Research Process and Data Source

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