

Thermal Ceramics Market: Segmented by Type (Ceramic fabric and insulation brick), By End user (Mining & metal processing, chemicals & petrochemicals, construction, manufacturing, power generation, aerospace and Others), and Region – Global Analysis of Market Size, Share & Trends for 2019–2020 and Forecasts to 2030

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Abstracts

[173 + Pages Research Report] Global Thermal Ceramics Market to surpass USD 8.2 billion by 2030 from USD 4.5 billion in 2020 at a CAGR of 5.4% in the coming years, i.e., 2021-30.

Product Overview

The global thermal ceramics market's expansion is mostly dependent on advancements in the building industry. The requirement to construct thermally insulated areas can only be satisfied by using thermal ceramics such as insulation bricks or ceramic fibers, which is driving market demand. The use of thermal ceramics in mining and metal processing has also played a significant role in market growth in the past and is expected to continue to do so in the future. Thermal ceramics have also been used extensively in the chemical sector for both testing and the production of critical products. The carcinogenic quality of ceramic fibers is a critical problem limiting the expansion of the thermal ceramics business. Various countries have enacted strict laws regarding the use of ceramic fibers and workplace exposure to alumina and silica.

Market Highlights

Global Thermal Ceramics market is expected to project a notable CAGR of 5.4% in 2030.

Over the projection period, large-scale uses of the product in process heaters, ceramic kilns, and high-temperature filtration products are predicted to fuel business expansion. Thermal ceramic is also employed in a variety of industries because of its small weight, minimal heat conduction, increased flexibility, and wide temperature range. The substance appears to have a wide range of applications in glass, petrochemicals, aluminum, and ceramics.

Global Thermal Ceramics: Segments

Ceramic segment to grow with the highest CAGR during 2020-30

Global Thermal Ceramics market is segmented by type into Ceramic fabric and insulation brick. Ceramic segment held the largest market share in the year 2020. Due to increased use in sealing and filtering applications in the steel, chemical, oil & gas, aluminum, glass, transportation, and other sectors, the ceramic textiles segment dominated the market in 2020 and is expected to rise at a faster rate over the forecast period.

Mining & metal segment to grow with the highest CAGR during 2020-30

Global Thermal Ceramics market is divided by end-user into Mining & metal processing, chemicals & petrochemicals, construction, manufacturing, power generation, aerospace, and Others. In 2020, the Mining & metal sector is expected to lead the global market in terms of value, based on industry. Due to the strong thermal insulation capabilities of thermal ceramics, the mining and metal processing segment dominated the market in 2020. However, due to increased applications in high-growth industries such as cement, glass, refractory, ceramic, transportation, and electronics & electrical, the manufacturing category is predicted to rise at a faster rate over the projection period.

Market Dynamics

Drivers

Increased demand for energy efficiency and reduction of heat loss

Thermal ceramics are commonly used for high-temperature insulation in high-temperature industrial applications to reduce energy consumption and emissions. The increased demand for energy efficiency and carbon reduction is propelling the thermal ceramic industry forward. Thermal ceramics, such as refractory ceramic fibers,

polycrystalline ceramic fibres, and insulating bricks, are widely utilized in chemical and petrochemical processing, cement production, power generation, and metallurgy. Thermal ceramics aid in the reduction of heat loss, fire prevention, and energy consumption, allowing end-use industries to lower operating and total manufacturing costs.

High demand through manufacturing and automobile

Thermal ceramics are predicted to be in high demand throughout the manufacturing, power generation, and chemical industries as a result of rapid urbanization, industrialization, and increased infrastructure construction. Furthermore, the thermal ceramics market is predicted to develop due to increased steel and aluminium production in response to rising demand from the construction and automotive sectors. For high-temperature insulation applications, thermal ceramics are projected to be in great demand.

Restraint

Availability of substitutes

The availability and use of alternative products is projected to be a stumbling block to the market's expansion.

Global Thermal Ceramics: Key Players

3M

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

CeramTec TopCo GmbH

Dyson Technical Ceramics Limited

FIBRECAST INC.

Ibiden Co., Ltd.

ISOLITE INSULATING PRODUCTS CO., LTD.

MITSUBISHI CHEMICAL HOLDINGS

MORGAN ADVANCED MATERIALS PLC

RHI Magnesita GmbH

Other Prominent Players

Global Thermal Ceramics: Regions

Global Thermal Ceramics market is segmented based on regional analysis into five major regions. These include North America, Latin America, Europe, Asia Pacific, and the Middle East, and Africa. Because of the existence of significant firms in the automotive and chemical sectors, North America led the market in 2020. However, due to increased infrastructure and rising steel output, Asia-Pacific is predicted to develop at a faster rate during the forecast period.

Global Thermal Ceramics is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil, and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey, and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia, and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa, and Rest of MENA

Global Thermal Ceramics report also contains analysis on:

Thermal Ceramics Segments:

By Type

Ceramic fabric

Insulation brick

By End-User

Mining & metal processing

chemicals & petrochemicals

construction

manufacturing

power generation

aerospace

Others

Thermal Ceramics Dynamics

Thermal Ceramics Size

Supply & Demand

Current Trends/Issues/Challenges

Competition & Companies Involved in the Market

Value Chain of the Market

Market Drivers and Restraints

Thermal Ceramics Market Report Scope and Segmentation

Report Attribute Details

Market size value in 2020 USD 4.5 billion

Revenue forecast in 2030 USD 8.2 billion

Growth Rate CAGR of 5.4% from 2020 to 2030

Base year for estimation 2020

Quantitative units Revenue in USD million and CAGR from 2021 to 2030

Report coverage Revenue forecast, company ranking, competitive landscape, growth factors, and trends

Segments covered Type, end-user, and Region

Regional scope North America, Europe, Asia Pacific, Latin America, Middle East & Africa (MEA)

Key companies profiled 3M, CeramTec TopCo GmbH, Dyson Technical Ceramics Limited, FIBRECAST INC., Ibiden Co., Ltd., ISOLITE INSULATING PRODUCTS CO., LTD., MITSUBISHI CHEMICAL HOLDINGS, MORGAN ADVANCED MATERIALS PLC, RHI Magnesita GmbH and Other Prominent Players.

Contents

1. EXECUTIVE SUMMARY

2. GLOBAL THERMAL CERAMICS MARKET

- 2.1. Product Overview
- 2.2. Market Definition
- 2.3. Segmentation
- 2.4. Assumptions and Acronyms

3. RESEARCH METHODOLOGY

- 3.1. Research Objectives
- 3.2. Primary Research
- 3.3. Secondary Research
- 3.4. Forecast Model
- 3.5. Market Size Estimation

4. AVERAGE PRICING ANALYSIS

5. MACRO-ECONOMIC INDICATORS

6. MARKET DYNAMICS

- 6.1. Growth Drivers
- 6.2. Restraints
- 6.3. Opportunity
- 6.4. Trends

7. CORRELATION & REGRESSION ANALYSIS

- 7.1. Correlation Matrix
- 7.2. Regression Matrix

8. RECENT DEVELOPMENT, POLICIES & REGULATORY LANDSCAPE

9. RISK ANALYSIS

9.1. Demand Risk Analysis

9.2. Supply Risk Analysis

10. GLOBAL THERMAL CERAMICS MARKET ANALYSIS

10.1. Porters Five Forces

10.1.1. Threat of New Entrants

10.1.2. Bargaining Power of Suppliers

10.1.3. Threat of Substitutes

10.1.4. Rivalry

10.2. PEST Analysis

10.2.1. Political

10.2.2. Economic

10.2.3. Social

10.2.4. Technological

11. GLOBAL THERMAL CERAMICS MARKET

11.1. Market Size & forecast, 2020A-2030F

11.1.1. By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

11.1.2. By Volume (Million Units) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12. GLOBAL THERMAL CERAMICS MARKET: MARKET SEGMENTATION

12.1. By Regions

12.1.1. North America:(U.S. and Canada), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.1.2. Latin America: (Brazil, Mexico, Argentina, Rest of Latin America), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.1.3. Europe: (Germany, UK, France, Italy, Spain, BENELUX, NORDIC, Hungary, Poland, Turkey, Russia, Rest of Europe), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.1.4. Asia-Pacific: (China, India, Japan, South Korea, Indonesia, Malaysia, Australia, New Zealand, Rest of Asia Pacific), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.1.5. Middle East and Africa: (Israel, GCC, North Africa, South Africa, Rest of Middle East and Africa), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.2. By Type : Market Share (2020-2030F)

12.2.1. Ceramic fabric, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%)
2021-2030F

12.2.2. Insulation brick, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%)
2021-2030F

12.3. By End User: Market Share (2020-2030F)

12.3.1. Mining & metal processing, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%)
2021-2030F

12.3.2. chemicals & petrochemicals, By Value (USD Million) 2020-2030F; Y-o-Y
Growth (%) 2021-2030F

12.3.3. construction, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%)
2021-2030F

12.3.4. manufacturing, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%)
2021-2030F

12.3.5. power generation, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%)
2021-2030F

12.3.6. aerospace, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%)
2021-2030F

12.3.7. Others, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
Company Profile

1. 3M

1. COMPANY OVERVIEW

2. COMPANY TOTAL REVENUE (FINANCIALS)

3. MARKET POTENTIAL

4. GLOBAL PRESENCE

5. KEY PERFORMANCE INDICATORS

6. SWOT ANALYSIS

7. PRODUCT LAUNCH

2. CERAMTEC TOPCO GMBH

3. DYSON TECHNICAL CERAMICS LIMITED

4. FIBRECAST INC.

5. IBIDEN CO., LTD.

6. ISOLITE INSULATING PRODUCTS CO., LTD.

7. MITSUBISHI CHEMICAL HOLDINGS

8. MORGAN ADVANCED MATERIALS PLC

9. RHI MAGNESITA GMBH

10. OTHER PROMINENT PLAYERS

Consultant Recommendation

**The above-given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.

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