

Thermal Ceramic Market Size, Share & Trends Analysis Report By Application (Industrial, Transportation, Petrochemical & Chemical), By Region, And Segment Forecasts, 2020 - 2027

<https://marketpublishers.com/r/T13A44F1F595EN.html>

Date: April 2020

Pages: 120

Price: US\$ 5,950.00 (Single User License)

ID: T13A44F1F595EN

Abstracts

The global thermal ceramic market size is expected to reach USD 7.01 billion by 2027, expanding at a CAGR of 7.1% over the forecast period, according to a new report by Grand View Research, Inc. Increasing demand for high-performance components in the transportation sector is anticipated to augment market growth over the coming years.

In the transportation sector, automobile and aircraft component manufacturers are the major consumers of thermal ceramics as they require lightweight, high temperature resistant, and flexible materials in producing high-performance engine and structural components. According to the Airbus, the number of commercial aircraft is likely to double, reaching 48,000 aircrafts worldwide by 2040, which, in turn, is expected to drive the demand for thermal ceramics over the coming years.

Asia Pacific emerged as the largest consumer of thermal ceramics in 2019 owing to growing demand for steel in the transportation, machinery, and automotive industries. Thermal ceramic is used as an insulation material for the lining of furnaces that are used in steel making processes. Asia has been the key producer of steel past many years. As of 2019, China was the largest producer of crude steel accounting for a volume share of 53.3% globally and India, Japan, and South Korea with 5.9%, 5.3%, and 3.8% respectively.

The Asian countries are inviting significant investments in their steel sector, which is anticipated to further increase their market share in the world. For instance, in September 2018, POSCO announced its plan to invest USD 40 billion by 2023 to

upgrade its steel capacity in South Korea. Such initiatives by steel manufacturers are anticipated to augment the demand for thermal ceramics over the coming years.

Key players of thermal ceramics market include 3M; CeramTec; Dyson Technical Ceramics; FibreCast Inc.; Ibsiden; Morgan Advanced Materials; Mitsubishi Chemical Corporation, LLC; Rauschert GmbH; and YESO Insulating Products. These companies are focusing on creating strong network by using various distribution channels and collaborating with dealers across the globe to ensure timely delivery of products.

Further key findings from the study suggest:

By application, the industrial segment accounted for the largest share of 66.3% in 2019 due to increasing use of thermal ceramics in heaters and furnaces as they control heat dissipation and reduce energy consumption during the manufacturing of steel and glass

The petrochemical and chemical application segment is expected to expand at the fastest CAGR of 7.0% over the forecast period. The growth is attributed to rising demand from the oil and gas industry, wherein thermal ceramics are used for the lining of boilers

Europe is anticipated to register a CAGR of 7.3% over the forecast period owing to growing transportation industry, wherein various components are manufactured using thermal ceramics due to their resistance to elevated temperatures

North America accounted for a share of 28.8% in 2019 on account of increasing number of infrastructure projects, which involve widespread usage of cement, glass, and metals

Thermal ceramic is gaining popularity over its counterparts due to rising concerns over environmental pollution and its properties, such as lightweight and high temperature resistance. It can withstand temperature ranging between 650oC to 1,600oC.

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Purchased Database
 - 1.3.2. GVR's Internal Database
 - 1.3.3. Secondary Sources & Third-Party Perspectives
 - 1.3.4. Primary Research
- 1.4. Information Analysis
 - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. Data Validation & Publishing

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Snapshot

CHAPTER 3. THERMAL CERAMICS MARKET INDUSTRY OUTLOOK

- 3.1. Market Outlook
- 3.2. Penetration & growth prospect mapping
- 3.3. Industry value chain analysis
 - 3.3.1. Raw material outlook
 - 3.3.2. Manufacturing & technology trends
- 3.4. Market dynamics
 - 3.4.1. Market driver analysis
 - 3.4.2. Market restraint analysis
- 3.5. Porter's analysis
- 3.6. PESTEL analysis

CHAPTER 4. THERMAL CERAMICS MARKET APPLICATION OUTLOOK

- 4.1. Definition & scope
- 4.2. Thermal ceramics market: Application movement analysis, 2019 & 2027
- 4.3. Industrial
 - 4.3.1. Market estimates & forecasts, 2016 - 2027

4.4. Transportation

4.4.1. Market estimates & forecasts, 2016 - 2027

4.5. Petrochemical & Chemical

4.5.1. Market estimates & forecasts, 2016 - 2027

4.6. Others

4.6.1. Market estimates & forecasts, 2016 - 2027

CHAPTER 5. THERMAL CERAMICS MARKET REGIONAL OUTLOOK

5.1. Regional snapshot

5.2. Thermal ceramics market: Regional movement analysis, 2019 & 2027

5.3. North America

5.3.1. Market estimates and forecasts, 2016 - 2027 (USD Million)

5.3.2. Market estimates and forecasts, by application, 2016 - 2027 (USD Million)

5.3.3. U.S.

5.3.3.1. Market estimates and forecasts, 2016 - 2027 (USD Million)

5.3.3.2. Market estimates and forecasts, by application, 2016 - 2027 (USD Million)

5.4. Europe

5.4.1. Market estimates and forecasts, 2016 - 2027 (USD Million)

5.4.2. Market estimates and forecasts, by application, 2016 - 2027 (USD Million)

5.4.3. Germany

5.4.3.1. Market estimates and forecasts, 2016 - 2027 (USD Million)

5.4.3.2. Market estimates and forecasts, by application, 2016 - 2027 (USD Million)

5.4.4. U.K.

5.4.4.1. Market estimates and forecasts, 2016 - 2027 (USD Million)

5.4.4.2. Market estimates and forecasts, by application, 2016 - 2027 (USD Million)

5.5. Asia Pacific

5.5.1. Market estimates and forecasts, 2016 - 2027 (USD Million)

5.5.2. Market estimates and forecasts, by application, 2016 - 2027 (USD Million)

5.5.3. China

5.5.3.1. Market estimates and forecasts, 2016 - 2027 (USD Million)

5.5.3.2. Market estimates and forecasts, by application, 2016 - 2027 (USD Million)

5.5.4. India

5.5.4.1. Market estimates and forecasts, 2016 - 2027 (USD Million)

5.5.4.2. Market estimates and forecasts, by application, 2016 - 2027 (USD Million)

5.6. Central & South America

5.6.1. Market estimates and forecasts, 2016 - 2027 (USD Million)

5.6.2. Market estimates and forecasts, by application, 2016 - 2027 (USD Million)

5.6.3. Brazil

5.6.3.1. Market estimates and forecasts, 2016 - 2027 (USD Million)

5.6.3.2. Market estimates and forecasts, by application, 2016 - 2027 (USD Million)

5.7. Middle East & Africa

5.7.1. Market estimates and forecasts, 2016 - 2027 (USD Million)

5.7.2. Market estimates and forecasts, by application, 2016 - 2027 (USD Million)

5.7.3. Saudi Arabia

5.7.3.1. Market estimates and forecasts, 2016 - 2027 (USD Million)

5.7.3.2. Market estimates and forecasts, by application, 2016 - 2027 (USD Million)

CHAPTER 6. COMPETITIVE LANDSCAPE

6.1. Key players, recent developments, and their impact on the industry

6.2. Vendor landscape

6.3. SWOT

CHAPTER 7. COMPANY PROFILES

7.1. Morgan Advanced Materials

7.1.1. Company overview

7.1.2. Financial performance

7.1.3. Product benchmarking

7.1.4. Strategic initiatives

7.2. 3M

7.2.1. Company overview

7.2.2. Financial performance

7.2.3. Product benchmarking

7.2.4. Strategic initiatives

7.3. CeramTec

7.3.1. Company overview

7.3.2. Financial performance

7.3.3. Product benchmarking

7.3.4. Strategic initiatives

7.4. Dyson Technical Ceramics

7.4.1. Company overview

7.4.2. Financial performance

7.4.3. Product benchmarking

7.4.4. Strategic initiatives

7.5. FibreCast Inc.

7.5.1. Company overview

- 7.5.2. Financial performance
- 7.5.3. Product benchmarking
- 7.5.4. Strategic initiatives
- 7.6. Ibiden
 - 7.6.1. Company overview
 - 7.6.2. Financial performance
 - 7.6.3. Product benchmarking
 - 7.6.4. Strategic initiatives
- 7.7. Mitsubishi Chemical Corporation, LLC
 - 7.7.1. Company overview
 - 7.7.2. Financial performance
 - 7.7.3. Product benchmarking
 - 7.7.4. Strategic initiatives
- 7.8. Rauschert GmbH
 - 7.8.1. Company overview
 - 7.8.2. Financial performance
 - 7.8.3. Product benchmarking
 - 7.8.4. Strategic initiatives
- 7.9. YESO Insulating Products
 - 7.9.1. Company overview
 - 7.9.2. Financial performance
 - 7.9.3. Product benchmarking
 - 7.9.4. Strategic initiatives

List Of Tables

LIST OF TABLES

TABLE 1 Thermal ceramics market estimates & forecasts, in industrial, 2016 - 2027 (USD Million)

TABLE 2 Thermal ceramics market estimates & forecasts, in transportation, 2016 - 2027 (USD Million)

TABLE 3 Thermal ceramics market estimates & forecasts, in petrochemical & chemical, 2016 - 2027 (USD Million)

TABLE 4 Thermal ceramics market estimates & forecasts, in other applications, 2016 - 2027 (USD Million)

TABLE 5 North America thermal ceramics market estimates and forecasts, 2016 - 2027 (USD Million)

TABLE 6 North America thermal ceramics market estimates and forecasts, by application, 2016 - 2027

TABLE 7 North America thermal ceramics market estimates and forecasts, by application, 2016 - 2027 (USD Million)

TABLE 8 U.S. thermal ceramics market estimates and forecasts, 2016 - 2027 (USD Million)

TABLE 9 U.S. thermal ceramics market estimates and forecasts, by application, 2016 - 2027

TABLE 10 U.S. thermal ceramics market estimates and forecasts, by application, 2016 - 2027 (USD Million)

TABLE 11 Europe thermal ceramics market estimates and forecasts, 2016 - 2027 (USD Million)

TABLE 12 Europe thermal ceramics market estimates and forecasts, by application, 2016 - 2027

TABLE 13 Europe thermal ceramics market estimates and forecasts, by application, 2016 - 2027 (USD Million)

TABLE 14 Germany thermal ceramics market estimates and forecasts, 2016 - 2027 (USD Million)

TABLE 15 Germany thermal ceramics market estimates and forecasts, by application, 2016 - 2027

TABLE 16 Germany thermal ceramics market estimates and forecasts, by application, 2016 - 2027 (USD Million)

TABLE 17 U.K. thermal ceramics market estimates and forecasts, 2016 - 2027 (USD Million)

TABLE 18 U.K. thermal ceramics market estimates and forecasts, by application, 2016 -

2027

TABLE 19 U.K. thermal ceramics market estimates and forecasts, by application, 2016 - 2027 (USD Million)

TABLE 20 Asia Pacific thermal ceramics market estimates and forecasts, 2016 - 2027 (USD Million)

TABLE 21 Asia Pacific thermal ceramics market estimates and forecasts, by application, 2016 - 2027

TABLE 22 Asia Pacific thermal ceramics market estimates and forecasts, by application, 2016 - 2027 (USD Million)

TABLE 23 China thermal ceramics market estimates and forecasts, 2016 - 2027 (USD Million)

TABLE 24 China thermal ceramics market estimates and forecasts, by application, 2016 - 2027

TABLE 25 China thermal ceramics market estimates and forecasts, by application, 2016 - 2027 (USD Million)

TABLE 26 India thermal ceramics market estimates and forecasts, 2016 - 2027 (USD Million)

TABLE 27 India thermal ceramics market estimates and forecasts, by application, 2016 - 2027

TABLE 28 India thermal ceramics market estimates and forecasts, by application, 2016 - 2027 (USD Million)

TABLE 29 Central & South America thermal ceramics market estimates and forecasts, 2016 - 2027 (USD Million)

TABLE 30 Central & South America thermal ceramics market estimates and forecasts, by application, 2016 - 2027

TABLE 31 Central & South America thermal ceramics market estimates and forecasts, by application, 2016 - 2027 (USD Million)

TABLE 32 Brazil thermal ceramics market estimates and forecast, 2016 - 2027 (USD Million)

TABLE 33 Brazil thermal ceramics market estimates and forecasts, by application, 2016 - 2027 (USD Million)

TABLE 34 Brazil thermal ceramics market estimates and forecasts, by application, 2016 - 2027 (USD Million)

TABLE 35 Middle East & Africa thermal ceramics market estimates and forecasts, 2016 - 2027 (USD Million)

TABLE 36 Middle East & Africa thermal ceramics market estimates and forecasts, by application, 2016 - 2027

TABLE 37 Middle East & Africa thermal ceramics market estimates and forecasts, by application, 2016 - 2027 (USD Million)

TABLE 38 Saudi Arabia thermal ceramics market estimates and forecast, 2016 - 2027
(USD Million)

TABLE 39 Saudi Arabia thermal ceramics market estimates and forecasts, by
application, 2016 - 2027

TABLE 40 Saudi Arabia thermal ceramics market estimates and forecasts, by
application, 2016 - 2027 (USD Million)

TABLE 41 List of suppliers

TABLE 42 List of end-users

List Of Figures

LIST OF FIGURES

- FIG 1. Thermal ceramics market segmentation
- FIG 2. Information procurement
- FIG 3. Data analysis models
- FIG 4. Market formulation and validation
- FIG 5. Data validating & publishing
- FIG 6. Thermal ceramics market outlook volume & revenue, 2016 - 2027 (USD Million)
- FIG 7. Industry value chain
- FIG 8. Market driver analysis
- FIG 9. Market restraint analysis
- FIG 10. Porter's analysis
- FIG 11. PESTEL analysis
- FIG 12. Thermal ceramics market: Application movement analysis, 2019 & 2027
- FIG 13. Thermal ceramics market: Regional snapshot
- FIG 14. Thermal ceramics market: Regional movement analysis, 2019 & 2027
- FIG 15. SWOT analysis of top companies

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