

# **Thermal Ceramics Market by Type (Ceramic Fibers and Insulation Bricks), End-Use Industry(Mining & Metal Processing, Chemical & Petrochemical, Manufacturing, Power Generation), Temperature Range, and Region - Global Forecast to 2023**

<https://marketpublishers.com/r/T2A44080B15EN.html>

Date: June 2018

Pages: 126

Price: US\$ 5,650.00 (Single User License)

ID: T2A44080B15EN

## **Abstracts**

The thermal ceramics market is projected to grow at a CAGR of 8.4% during the forecast period.

The thermal ceramics market is estimated to be USD 3.36 billion in 2018 and is projected to reach USD 5.02 billion by 2023, at a CAGR of 8.4% from 2018 to 2023. Rapid infrastructural development in emerging economies of APAC is one of the major factors driving the thermal ceramics market. For instance, various agreements have been signed between India and China for the development of sectors such as railways, renewable energy, and industrial parks. The growth of the thermal ceramics market is, however, restrained by the carcinogenic nature of ceramic fibers and environmental concerns related to refractories.

The 1,000 to 1,400°C temperature range segment is projected to witness the highest CAGR during the forecast period.

Based on temperature range, the 1,000 to 1,400°C segment accounted for the largest market size and is also projected to grow at the highest rate owing to the large volumes of thermal ceramics being used in diverse applications, such as homogenizing furnaces, process heaters, ceramic kilns, high temperature filtration, refractory back-up for aluminum melting and holding furnaces, aluminum furnace tap-out plug cover and parting agent, aluminum distributor pan linings, gaskets for any high temperature application, back up lining for metal troughs, and heat shields.

The manufacturing end-use industry segment is projected to grow at the highest CAGR during the forecast period.

Based on end-use industry, the manufacturing segment of the thermal ceramics market is projected to grow at the highest rate during the forecast period. This segment includes industries such as automotive, cement, electronics, glass, and refractory. The high growth in the cement industry, owing to urbanization and industrialization, is fueling the demand for thermal ceramics. The increasing production of automotive and electronics has also contributed to the growth of thermal ceramics market.

By type, the ceramic fibers segment is projected to grow at a higher CAGR than the insulation bricks segment from 2018 to 2023.

Ceramic fibers are the most commonly used thermal ceramics due to their superior properties across a wide temperature range, generally from 650°C and above. Properties such as low thermal conductivity and lightweight make ceramic fibers effective for insulation. Another advantage of ceramic fibers is their ability to be converted into any shape or size due to their high flexibility. Ceramic fibers find application in the petrochemical, glass, ceramics, and aluminum industries.

By region, the Asia Pacific thermal ceramics market is projected to grow at the highest CAGR during the forecast period.

The Asia Pacific thermal ceramics market growth is driven by the fast-growing manufacturing industries in the region. Automotive, energy, and construction are the major industries contributing to the high growth of the thermal ceramics market in Asia Pacific. The cement industry, which serves the construction segment, is a high potential growth market. Additionally, as per the estimation of International Data Corporation, the manufacturing spending in this region is expected to grow at a CAGR of 4.8% between 2015 and 2019. All these factors are expected to make this region a high growth market for thermal ceramics.

This study was validated through primaries conducted with various industry experts worldwide. The primary sources were divided into 3 categories, namely, company type, designation, and region.

By Company Type – Tier 1-70%, Tier 2 -20%, and Tier 3-10%

By Designation - C Level-5%, Director Level-20%, and Others-75%

By Region - North America-10%, Europe-30%, Asia Pacific-40%, Middle East & Africa -15%, and South America-5%

#### Companies Profiled in the Report:

Key players profiled in this report include Morgan Thermal Ceramics (UK), Unifrax (US), IBIDEN (Japan), Isolite Insulating Products (Japan), Luyang Energy-Saving Materials (China), RHI Magnesita (Austria), Rath (US), Mitsubishi Chemical Corporation (Japan), 3M (US), and YESO Insulating Products (China).

#### Research Coverage:

The report offers insights on thermal ceramics used in various end-use industries across regions. It aims at estimating the size of the thermal ceramics market during the forecast period and projects future growth of the market across different segments, such as type, temperature range, end-use industry, and region. The report also includes an in-depth competitive analysis of the key players in the thermal ceramics market, along with their company profiles, SWOT analysis, recent developments, and key market strategies.

#### Key Benefits of Buying the Report:

The report will help market leaders/new entrants in the thermal ceramics market by providing them the closest approximations of the revenues for the overall market and its various subsegments. This report will help stakeholders obtain a better understanding of the competitive landscape and gain insights to enhance their businesses and devise suitable market strategies. The report will also help stakeholders understand the pulse of the market and help acquire information on key market drivers, restraints, challenges, and opportunities affecting the growth of the thermal ceramics market.

## Contents

### **1 INTRODUCTION**

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 MARKET SCOPE
  - 1.3.1 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY
- 1.5 UNIT CONSIDERED
- 1.6 STAKEHOLDERS

### **2 RESEARCH METHODOLOGY**

- 2.1 RESEARCH DATA
  - 2.1.1 SECONDARY DATA
    - 2.1.1.1 Key data from secondary sources
  - 2.1.2 PRIMARY DATA
    - 2.1.2.1 Key data from primary sources
    - 2.1.2.2 Key industry insights
    - 2.1.2.3 Breakdown of primary interviews
- 2.2 MARKET SIZE ESTIMATION
  - 2.2.1 BOTTOM-UP APPROACH
  - 2.2.2 TOP-DOWN APPROACH
- 2.3 DATA TRIANGULATION
- 2.4 ASSUMPTIONS
- 2.5 LIMITATIONS

### **3 EXECUTIVE SUMMARY**

### **4 PREMIUM INSIGHTS**

- 4.1 SIGNIFICANT OPPORTUNITIES IN THE THERMAL CERAMICS MARKET
- 4.2 APAC THERMAL CERAMICS MARKET, BY END-USE INDUSTRY AND COUNTRY
- 4.3 THERMAL CERAMICS MARKET, BY TEMPERATURE RANGE
- 4.4 THERMAL CERAMICS MARKET, BY END-USE INDUSTRY
- 4.5 THERMAL CERAMICS MARKET, BY REGION

### **5 MARKET OVERVIEW**

*Thermal Ceramics Market by Type (Ceramic Fibers and Insulation Bricks), End-Use Industry(Mining & Metal Proces...*

## 5.1 INTRODUCTION

## 5.2 MARKET DYNAMICS

### 5.2.1 DRIVERS

5.2.1.1 Growing need for energy savings

5.2.1.2 Rapid infrastructural development in emerging economies of APAC

5.2.1.3 High growth potential in non-metallic minerals

### 5.2.2 RESTRAINTS

5.2.2.1 Carcinogenic nature of ceramic fibers

5.2.2.2 Environmental concerns related to refractories

### 5.2.3 OPPORTUNITIES

5.2.3.1 Development of low bio-persistent materials

5.2.3.2 Need for recycling of refractories

## 5.3 PORTER'S FIVE FORCES ANALYSIS

### 5.3.1 THREAT OF NEW ENTRANTS

### 5.3.2 THREAT OF SUBSTITUTES

### 5.3.3 BARGAINING POWER OF BUYERS

### 5.3.4 BARGAINING POWER OF SUPPLIERS

### 5.3.5 INTENSITY OF COMPETITIVE RIVALRY

## 5.4 MACROECONOMIC INDICATORS

### 5.4.1 INTRODUCTION

### 5.4.2 TRENDS AND FORECAST OF GDP

### 5.4.3 AUTOMOTIVE INDUSTRY

### 5.4.4 CHEMICAL INDUSTRY

## 5.5 ENERGY CONSUMPTION DATA, 2016

## 5.6 CRUDE OIL PRODUCTION DATA, 2016

## 5.7 STEEL INDUSTRY DATA, 2016

## 5.8 MANUFACTURING GDP GROWTH RATE, 2016

## 6 EXPERT INTERVIEW

## 7 THERMAL CERAMICS MARKET, BY TYPE

### 7.1 INTRODUCTION

### 7.2 CERAMIC FIBERS

#### 7.2.1 VITREOUS ALUMINA-SILICA CERAMIC FIBER

7.2.1.1 Refractory ceramic fibers (RCF)

#### 7.2.2 LOW BIO-PERSISTENT CERAMIC FIBERS

#### 7.2.3 POLYCRYSTALLINE CERAMIC FIBERS

### 7.3 INSULATING FIREBRICKS

- 7.3.1 ACIDIC REFRACTORY BRICKS
- 7.3.2 NEUTRAL REFRACTORY BRICKS
- 7.3.3 BASIC REFRACTORY BRICKS

## **8 THERMAL CERAMICS MARKET, BY TEMPERATURE RANGE**

- 8.1 INTRODUCTION
- 8.2 650–1,000°C
- 8.3 1,000–1,400°C
- 8.4 1,400–1,600°C

## **9 THERMAL CERAMICS MARKET, BY END-USE INDUSTRY**

- 9.1 INTRODUCTION
- 9.2 CHEMICAL & PETROCHEMICAL
  - 9.2.1 CHEMICAL
  - 9.2.2 PETROCHEMICAL
- 9.3 MINING & METAL PROCESSING
  - 9.3.1 IRON & STEEL
  - 9.3.2 ALUMINUM
  - 9.3.3 OTHERS
- 9.4 MANUFACTURING
  - 9.4.1 CEMENT
  - 9.4.2 GLASS
  - 9.4.3 OTHERS
    - 9.4.3.1 Ceramics
- 9.5 POWER GENERATION
- 9.6 OTHERS

## **10 THERMAL CERAMICS MARKET, BY REGION**

- 10.1 INTRODUCTION
- 10.2 APAC
  - 10.2.1 CHINA
  - 10.2.2 INDIA
  - 10.2.3 JAPAN
  - 10.2.4 SOUTH KOREA
  - 10.2.5 REST OF APAC
- 10.3 NORTH AMERICA

- 10.3.1 US
- 10.3.2 CANADA
- 10.3.3 MEXICO
- 10.4 EUROPE
  - 10.4.1 GERMANY
  - 10.4.2 UK
  - 10.4.3 RUSSIA
  - 10.4.4 FRANCE
  - 10.4.5 REST OF EUROPE
- 10.5 MIDDLE EAST & AFRICA
  - 10.5.1 SAUDI ARABIA
  - 10.5.2 SOUTH AFRICA
  - 10.5.3 REST OF THE MIDDLE EAST & AFRICA
- 10.6 SOUTH AMERICA
  - 10.6.1 BRAZIL
  - 10.6.2 ARGENTINA
  - 10.6.3 REST OF SOUTH AMERICA

## **11 COMPETITIVE LANDSCAPE**

- 11.1 OVERVIEW
- 11.2 MARKET SHARE ANALYSIS OF KEY PLAYERS
- 11.3 COMPETITIVE SCENARIO
  - 11.3.1 INVESTMENT & EXPANSION
  - 11.3.2 MERGER & ACQUISITION
  - 11.3.3 NEW PRODUCT LAUNCH
  - 11.3.4 AGREEMENT, PARTNERSHIP & JOINT VENTURE

## **12 COMPANY PROFILES**

(Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View)

- 12.1 MORGAN ADVANCED MATERIALS
- 12.2 UNIFRAX
- 12.3 LUYANG ENERGY-SAVING MATERIALS
- 12.4 ISOLITE INSULATING PRODUCTS
- 12.5 RHI MAGNESITA N.V.
- 12.6 3M
- 12.7 IBIDEN

12.8 MITSUBISHI CHEMICAL CORPORATION

12.9 RATH INC.

12.10 YESO INSULATING PRODUCTS

Details on Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View might not be captured in case of unlisted companies.

12.11 OTHERS

12.11.1 BNZ MATERIALS

12.11.2 PYROTEK

12.11.3 PROMAT INTERNATIONAL

## **13 APPENDIX**

13.1 INSIGHTS FROM INDUSTRY EXPERTS

13.2 DISCUSSION GUIDE

13.3 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

13.4 INTRODUCING RT: REAL-TIME MARKET INTELLIGENCE

13.5 AVAILABLE CUSTOMIZATIONS

13.6 RELATED REPORTS

13.7 AUTHOR DETAILS



## List Of Tables

### LIST OF TABLES

- Table 1 TRENDS AND FORECAST OF GDP, USD BILLION (2017–2022)
- Table 2 MOTOR VEHICLE PRODUCTION, BY KEY COUNTRY, 2015–2016
- Table 3 ENERGY CONSUMPTION DATA, BY KEY COUNTRY, 2015–2016
- Table 4 CRUDE OIL PRODUCTION DATA, BY KEY COUNTRY, 2015–2016
- Table 5 STEEL PRODUCTION DATA, BY KEY COUNTRY, 2016
- Table 6 MANUFACTURING GDP GROWTH RATE, BY KEY COUNTRY, 2016
- Table 7 THERMAL CERAMICS MARKET SIZE, BY TYPE, 2016–2023 (KILOTON)
- Table 8 THERMAL CERAMICS MARKET SIZE, BY TYPE, 2016–2023 (USD MILLION)
- Table 9 FORMS OF CERAMIC FIBERS
- Table 10 THERMAL CERAMICS MARKET SIZE, BY TEMPERATURE RANGE, 2016–2023 (KILOTON)
- Table 11 THERMAL CERAMICS MARKET SIZE, BY TEMPERATURE RANGE, 2016–2023 (USD MILLION)
- Table 12 THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)
- Table 13 THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)
- Table 14 THERMAL CERAMICS MARKET SIZE, BY REGION, 2016–2023 (KILOTON)
- Table 15 THERMAL CERAMICS MARKET SIZE, BY REGION, 2016–2023 (USD MILLION)
- Table 16 APAC: THERMAL CERAMICS MARKET SIZE, BY COUNTRY, 2016–2023 (KILOTON)
- Table 17 APAC: THERMAL CERAMICS MARKET SIZE, BY COUNTRY, 2016–2023 (USD MILLION)
- Table 18 APAC: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)
- Table 19 APAC: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)
- Table 20 CHINA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)
- Table 21 CHINA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)
- Table 22 INDIA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)
- Table 23 INDIA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY,

2016–2023 (USD MILLION)

Table 24 JAPAN: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 25 JAPAN: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 26 SOUTH KOREA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 27 SOUTH KOREA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 28 REST OF APAC: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 29 REST OF APAC: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 30 NORTH AMERICA: THERMAL CERAMICS MARKET SIZE, BY COUNTRY, 2016–2023 (KILOTON)

Table 31 NORTH AMERICA: THERMAL CERAMICS MARKET SIZE, BY COUNTRY, 2016–2023 (USD MILLION)

Table 32 NORTH AMERICA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 33 NORTH AMERICA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 34 US: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 35 US: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 36 CANADA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 37 CANADA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 38 MEXICO: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 39 MEXICO: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 40 EUROPE: THERMAL CERAMICS MARKET SIZE, BY COUNTRY, 2016–2023 (KILOTON)

Table 41 EUROPE: THERMAL CERAMICS MARKET SIZE, BY COUNTRY, 2016–2023 (USD MILLION)

Table 42 EUROPE: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 43 EUROPE: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 44 GERMANY: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 45 GERMANY: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 46 UK: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 47 UK: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 48 RUSSIA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 49 RUSSIA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 50 FRANCE: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 51 FRANCE: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 52 REST OF EUROPE: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 53 REST OF EUROPE: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 54 MIDDLE EAST & AFRICA: THERMAL CERAMICS MARKET SIZE, BY COUNTRY, 2016–2023 (KILOTON)

Table 55 MIDDLE EAST & AFRICA: THERMAL CERAMICS MARKET SIZE, BY COUNTRY, 2016–2023 (USD MILLION)

Table 56 MIDDLE EAST & AFRICA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 57 MIDDLE EAST & AFRICA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 58 SAUDI ARABIA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 59 SAUDI ARABIA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 60 SOUTH AFRICA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 61 SOUTH AFRICA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 62 REST OF THE MIDDLE EAST & AFRICA: THERMAL CERAMICS MARKET

SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 63 REST OF THE MIDDLE EAST & AFRICA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 64 SOUTH AMERICA: THERMAL CERAMICS MARKET SIZE, BY COUNTRY, 2016–2023 (KILOTON)

Table 65 SOUTH AMERICA: THERMAL CERAMICS MARKET SIZE, BY COUNTRY, 2016–2023 (USD MILLION)

Table 66 SOUTH AMERICA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 67 SOUTH AMERICA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 68 BRAZIL: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 69 BRAZIL: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 70 ARGENTINA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 71 ARGENTINA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 72 REST OF SOUTH AMERICA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (KILOTON)

Table 73 REST OF SOUTH AMERICA: THERMAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2016–2023 (USD MILLION)

Table 74 INVESTMENTS & EXPANSIONS, 2014–2017

Table 75 MERGERS & ACQUISITIONS 2013–2018

Table 76 NEW PRODUCT LAUNCHES, 2014–2018

Table 77 AGREEMENT, PARTNERSHIP & JOINT VENTURES, 2014

## List Of Figures

### LIST OF FIGURES

Figure 1 THERMAL CERAMICS MARKET SEGMENTATION

Figure 2 THERMAL CERAMICS MARKET: RESEARCH DESIGN

Figure 3 MARKET SIZE ESTIMATION: BOTTOM-UP APPROACH

Figure 4 MARKET SIZE ESTIMATION: TOP-DOWN APPROACH

Figure 5 THERMAL CERAMICS MARKET: DATA TRIANGULATION

Figure 6 THERMAL CERAMICS MARKET SIZE, (KILOTON AND USD BILLION), 2016–2023

Figure 7 CERAMIC FIBERS TO DOMINATE THE THERMAL CERAMICS MARKET

Figure 8 1,400–1,600°C TEMPERATURE RANGE SEGMENT TO WITNESS THE HIGHEST CAGR DURING THE FORECAST PERIOD

Figure 9 MINING & METAL PROCESSING LED THE THERMAL CERAMICS MARKET

Figure 10 CHINA TO BE THE LARGEST MARKET OF THERMAL CERAMICS BETWEEN 2018 AND 2023

Figure 11 APAC DOMINATED THERMAL CERAMICS MARKET IN 2017

Figure 12 INCREASED DEMAND FROM MINING & METAL PROCESSING INDUSTRY TO DRIVE THE MARKET

Figure 13 MINING & METAL PROCESSING SEGMENT DOMINATED THERMAL CERAMICS MARKET IN APAC

Figure 14 1,000–1,400°C TEMPERATURE RANGE TO BE THE FASTEST-GROWING SEGMENT

Figure 15 MANUFACTURING END-USE INDUSTRY TO REGISTER THE HIGHEST CAGR

Figure 16 APAC DOMINATED THE THERMAL CERAMICS MARKET, 2017

Figure 17 OVERVIEW OF FACTORS GOVERNING THE THERMAL CERAMICS MARKET

Figure 18 THERMAL CERAMICS MARKET: PORTER'S FIVE FORCES ANALYSIS

Figure 19 GROWTH RATE OF CHEMICAL INDUSTRY (2015–2018)

Figure 20 CERAMIC FIBERS TO DRIVE THE OVERALL THERMAL CERAMICS MARKET

Figure 21 1,000–1,400°C TEMPERATURE RANGE SEGMENT TO WITNESS HIGH GROWTH DURING THE FORECAST PERIOD

Figure 22 METAL PROCESSING END-USE INDUSTRY TO DRIVE THERMAL CERAMICS MARKET

Figure 23 INDIA TO REGISTER THE HIGHEST CAGR IN THE THERMAL CERAMICS MARKET

Figure 24 APAC: THERMAL CERAMICS MARKET SNAPSHOT

Figure 25 NORTH AMERICA: THERMAL CERAMICS MARKET SNAPSHOT

Figure 26 EUROPE: THERMAL CERAMICS MARKET SNAPSHOT

Figure 27 COMPANIES ADOPTED NEW PRODUCT LAUNCH AS THE KEY GROWTH STRATEGY

Figure 28 MARKET SHARE ANALYSIS, 2017

Figure 29 MORGAN ADVANCED MATERIALS: COMPANY SNAPSHOT

Figure 30 MORGAN ADVANCED MATERIALS: SWOT ANALYSIS

Figure 31 LUYANG ENERGY-SAVING MATERIALS: COMPANY SNAPSHOT

Figure 32 RHI MAGNESITA: COMPANY SNAPSHOT

Figure 33 RHI MAGNESITA: SWOT ANALYSIS

Figure 34 3M: COMPANY SNAPSHOT

Figure 35 3M: SWOT ANALYSIS

Figure 36 IBIDEN: COMPANY SNAPSHOT

Figure 37 IBIDEN: SWOT ANALYSIS

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