

# **Synthetic Zeolites Market by Type of Zeolite (Zeolite A, Type X, Type Y, USY, ZSM-5), Application (Detergent Builder, Drying, Separation, & Adsorption, Catalytic Cracking, & Specialties), Function (Ion-Exchange, Molecular Sieve, & Catalyst) & Region – Global Forecast to 2023**

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## **Abstracts**

“Increasing demand for synthetic zeolites for use in specialty applications is expected to drive the overall growth of synthetic zeolites market.”

The synthetic zeolites market is projected to grow from USD 5.2 billion in 2018 to USD 5.9 billion by 2023 at a Compound Annual Growth Rate (CAGR) of 2.6% during the forecast period. The growth of the synthetic zeolites market can be attributed to the increased consumption of detergents due to the growing population and demand for zeolites for use in specialty applications. Some zeolite dusts are considered nuisance dusts due to their toxicity, such as zeolites used in personal care products. Even inadvertently inhaling these dust particles raise safety and health concerns. This is one of the major challenges restricting the growth of the market.

“Based on type of zeolite, the type X zeolite segment is expected to grow at the highest CAGR during the forecast period”

Type X zeolites belong to the Faujasite family of zeolites and are used as sorbents and catalysts. They have a Faujasite framework and are used in gas drying applications. 13X is a commercially used type X zeolite which has the largest pore size of 10A. 13X with sodium as a cation has a pore size of 8A. It is an alumina zeolite and has a wide range of industrial applications such as gas adsorption and separation, besides being

used as a catalyst.

“Based on application, the drying, separation, and adsorption segment is expected to grow at the highest CAGR during the forecast period”

Synthetic zeolites are used for the removal of H<sub>2</sub>O, CO<sub>2</sub>, and SO<sub>2</sub> from low-grade natural gas. They are also used to separate noble gases, such as N<sub>2</sub> and O<sub>2</sub>, as well as formaldehyde from natural gas streams. They are used widely in industrial gas drying, purification, and separation applications. They are also used in the liquid or gas phase separation process as adsorbents.

“Asia Pacific is expected to dominate the market in terms of volume during the forecast period”

The Chinese oil market is controlled by four national oil companies—China National Petroleum Corporation (CNPC), China Petroleum and Chemical Corporation (Sinopec), China National Offshore Oil Corporation (CNOOC), and China National Chemicals Import and Export Corporation (Sinochem). Over the past few years, China’s oil consumption has increased rapidly. China is the largest market in Asia Pacific in terms of production and consumption of synthetic zeolites. The country is taking efforts to boost various industries, which includes the oil & gas refining and industrial sectors. This has resulted in a huge demand for adsorbents in the country.

The break-up of profiles of primary participants for the report has been given below:

By Company Type: Tier 1—30%, Tier 2—45%, and Tier 3—25%

By Designation: C Level—60%, D Level—25%, and Others—15%

By Region: North America—40%, Europe—15%, Asia Pacific—35%, South America—5%, and the Middle East & Africa—5%

Major companies in the synthetic zeolites market include Albemarle Corporation (US), BASF SE (Germany), Honeywell International Inc (US), Clariant AG (Switzerland), W.R. Grace & Co. (US), TOSOH Corporation (Japan), Union Showa KK, (Japan), Zeochem AG (Switzerland), KNT Group (Russia), Arkema SA (France), Zeolyst International (US), Huiying Chemical Industry (China), Chemiewerk Bad Kostritz GMBH (Germany), National Aluminium Company Limited (India), and PQ Corporation (US).

## Research Coverage

This report defines, segments, and projects the synthetic zeolites market based on type of zeolite, application, function, and region. It strategically profiles key players and comprehensively analyzes the ranking of leading players in the synthetic zeolites market. It also tracks and analyzes competitive developments such as expansions, acquisitions, joint ventures, investments, new product launches, partnerships, and agreements in the synthetic zeolites market.

## Reasons to Buy the Report

This report is expected to help market leaders/new entrants in this market by providing them the closest approximations of revenues of the synthetic zeolites market and its subsegments. This report is also expected to help stakeholders obtain an improved understanding of the competitive landscape, gain insights to enhance the position of their businesses, and enable them to make suitable go-to-market strategies. The report is expected to help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

## 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 STAKEHOLDERS
- 1.6 LIMITATIONS

### **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
- 2.3 DATA TRIANGULATION
- 2.4 ASSUMPTIONS

### **3 EXECUTIVE SUMMARY**

### **4 PREMIUM INSIGHTS**

- 4.1 ATTRACTIVE OPPORTUNITIES IN THE SYNTHETIC ZEOLITES MARKET
- 4.2 SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE
- 4.3 SYNTHETIC ZEOLITES MARKET, BY APPLICATION
- 4.4 SYNTHETIC ZEOLITES MARKET, BY REGION

### **5 MARKET OVERVIEW**

- 5.1 INTRODUCTION
- 5.2 MARKET DYNAMICS
  - 5.2.1 DRIVERS

5.2.1.1 Rising demand for synthetic zeolites from the detergent industry

5.2.1.2 Increasing number of end-use industries for synthetic zeolites

5.2.1.3 Significant usage of synthetic zeolites for catalytic cracking in the petroleum industry

#### 5.2.2 RESTRAINTS

5.2.2.1 High selectivity leads to lower exploitation of synthetic zeolites for various applications

#### 5.2.3 OPPORTUNITIES

5.2.3.1 Rising demand for adsorbents

5.2.3.2 Recovering oil prices

#### 5.2.4 CHALLENGES

5.2.4.1 Toxic nature of synthetic zeolites

### 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 SUPPLIERS

5.3.4 BARGAINING POWER OF BUYERS

5.3.5 INTENSITY OF COMPETITIVE RIVALRY

### 5.4 ECONOMIC INDICATORS

5.4.1 INDUSTRY OUTLOOK

5.4.1.1 OIL & GAS

5.4.2 INDUSTRY OUTLOOK - PETROCHEMICALS

## 6 SYNTHETIC ZEOLITES MARKET, BY FRAMEWORK

6.1 INTRODUCTION

6.2 LINDE TYPE A

6.3 FAUJASITE

6.4 MFI

## 7 SYNTHETIC ZEOLITES MARKET, BY PORE SIZE

7.1 INTRODUCTION

7.2 3A-7A

7.3 7A-10A

## 8 SYNTHETIC ZEOLITES MARKET, BY FUNCTION

8.1 INTRODUCTION

- 8.2 ION-EXCHANGE
- 8.3 MOLECULAR SIEVE
- 8.4 CATALYST

## **9 SYNTHETIC ZEOLITES MARKET, BY APPLICATION**

- 9.1 INTRODUCTION
- 9.2 DETERGENT BUILDER
- 9.3 DRYING, SEPARATION, AND ADSORPTION
- 9.4 CATALYTIC CRACKING
- 9.5 SPECIALTIES

## **10 SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE**

- 10.1 INTRODUCTION
- 10.2 ZEOLITE A
- 10.3 TYPE X
- 10.4 TYPE Y
- 10.5 ULTRA-STable Y (USY)
- 10.6 ZSM-5

## **11 SYNTHETIC ZEOLITES MARKET, BY REGION**

- 11.1 INTRODUCTION
- 11.2 ASIA PACIFIC
  - 11.2.1 CHINA
  - 11.2.2 INDIA
  - 11.2.3 JAPAN
  - 11.2.4 SOUTH KOREA
  - 11.2.5 REST OF ASIA PACIFIC
- 11.3 NORTH AMERICA
  - 11.3.1 US
  - 11.3.2 CANADA
  - 11.3.3 MEXICO
- 11.4 EUROPE
  - 11.4.1 GERMANY
  - 11.4.2 UK
  - 11.4.3 ITALY
  - 11.4.4 FRANCE

- 11.4.5 SPAIN
- 11.4.6 REST OF EUROPE
- 11.5 MIDDLE EAST & AFRICA
  - 11.5.1 SAUDI ARABIA
  - 11.5.2 IRAN
  - 11.5.3 UAE
  - 11.5.4 REST OF MIDDLE EAST & AFRICA
- 11.6 SOUTH AMERICA
  - 11.6.1 BRAZIL
  - 11.6.2 ARGENTINA
  - 11.6.3 REST OF SOUTH AMERICA

## **12 COMPETITIVE LANDSCAPE**

- 12.1 OVERVIEW
- 12.2 MARKET RANKING OF KEY PLAYERS
- 12.3 COMPETITIVE SCENARIO
  - 12.3.1 EXPANSIONS
  - 12.3.2 ACQUISITIONS
  - 12.3.3 JOINT VENTURES
  - 12.3.4 AGREEMENTS
  - 12.3.5 PARTNERSHIPS
  - 12.3.6 NEW TECHNOLOGY LAUNCH
  - 12.3.7 NEW PRODUCT LAUNCHES
  - 12.3.8 DIVESTITURES
  - 12.3.9 RESEARCH & DEVELOPMENT
  - 12.3.10 COLLABORATIONS

## **13 COMPANY PROFILES**

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

- 13.1 ALBEMARLE CORPORATION
- 13.2 BASF SE
- 13.3 HONEYWELL INTERNATIONAL INC
- 13.4 CLARIANT AG
- 13.5 W. R. GRACE & CO.
- 13.6 TOSOH CORPORATION

- 13.7 UNION SHOWA K.K.
- 13.8 ZEOCHEM AG
- 13.9 KNT GROUP
- 13.10 ARKEMA S.A
- 13.11 ZEOLYST INTERNATIONAL
- 13.12 HUIYING CHEMICAL INDUSTRY (QUANZHOU) CO., LTD.
- 13.13 CHEMIEWERK BAD KOSTRITZ GMBH
- 13.14 NATIONAL ALUMINUM COMPANY LIMITED (NALCO)
- 13.15 PQ CORPORATION

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

- 13.16 OTHER KEY PLAYERS
  - 13.16.1 NINGBO JIAHE NEW MATERIALS TECHNOLOGY CO., LTD
  - 13.16.2 SORBEAD INDIA
  - 13.16.3 DALIAN HAIXIN CHEMICAL INDUSTRIAL CO., LTD
  - 13.16.4 GUJARAT CREDO MINERAL INDUSTRIES LTD
  - 13.16.5 GUJARAT MULTI GAS BASE CHEMICALS PVT. LTD
  - 13.16.6 IQE GROUP
  - 13.16.7 RIVE TECHNOLOGY
  - 13.16.8 EURECAT SERVICES INC
  - 13.16.9 FUJIAN ANTEN CHEMICAL CO., LTD
  - 13.16.10 MANEK MINERALS

## **14 APPENDIX**

- 14.1 DISCUSSION GUIDE
- 14.2 KNOWLEDGE STORE: MARKETSSANDMARKETS' SUBSCRIPTION PORTAL
- 14.3 AVAILABLE CUSTOMIZATIONS
- 14.4 RELATED REPORTS
- 14.5 AUTHOR DETAILS



## List Of Tables

### LIST OF TABLES

Table 1 SYNTHETIC ZEOLITES MARKET SNAPSHOT

Table 2 CRUDE OIL TRADE FLOW, BY REGION (MILLION BARRELS PER DAY)

Table 3 SYNTHETIC ZEOLITES MARKET, BY FUNCTION, 2016–2023 (USD MILLION)

Table 4 SYNTHETIC ZEOLITES MARKET, BY FUNCTION, 2016–2023 (KILOTONS)

Table 5 SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 6 SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 7 SYNTHETIC ZEOLITES MARKET IN DETERGENT BUILDER, BY REGION, 2016–2023 (USD MILLION)

Table 8 SYNTHETIC ZEOLITES MARKET IN DETERGENT BUILDER, BY REGION, 2016–2023 (KILOTONS)

Table 9 SYNTHETIC ZEOLITES MARKET IN DRYING, SEPARATION, ADSORPTION, BY REGION, 2016–2023 (USD MILLION)

Table 10 SYNTHETIC ZEOLITES MARKET IN DRYING, SEPARATION, ADSORPTION, BY REGION, 2016–2023 (KILOTONS)

Table 11 SYNTHETIC ZEOLITES MARKET IN CATALYTIC CRACKING, BY REGION, 2016–2023 (USD MILLION)

Table 12 SYNTHETIC ZEOLITES MARKET IN CATALYTIC CRACKING APPLICATION, BY REGION, 2016–2023 (KILOTONS)

Table 13 SYNTHETIC ZEOLITES MARKET IN SPECIALTIES, BY REGION, 2016–2023 (USD MILLION)

Table 14 SYNTHETIC ZEOLITES MARKET IN SPECIALTIES, BY REGION, 2016–2023 (KILOTONS)

Table 15 SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 16 SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTONS)

Table 17 ZEOLITE A MARKET, BY REGION, 2016–2023 (USD MILLION)

Table 18 ZEOLITE A MARKET, BY REGION, 2016–2023 (KILOTONS)

Table 19 TYPE X ZEOLITES MARKET, BY REGION, 2016–2023 (USD MILLION)

Table 20 TYPE X ZEOLITES MARKET, BY REGION, 2016–2023 (KILOTONS)

Table 21 TYPE Y ZEOLITES MARKET, BY REGION, 2016–2023 (USD MILLION)

Table 22 TYPE Y ZEOLITES MARKET, BY REGION, 2016–2023 (KILOTONS)

Table 23 ULTRA-S Table Y (USY) ZEOLITES MARKET, BY REGION, 2016–2023 (USD MILLION)

Table 24 ULTRA-S Table Y (USY) ZEOLITES MARKET, BY REGION, 2016–2023 (KILOTONS)

Table 25 ZSM-5 ZEOLITES MARKET, BY REGION, 2016–2023 (USD MILLION)

Table 26 ZSM-5 ZEOLITES MARKET, BY REGION, 2016–2023 (KILOTONS)

Table 27 SYNTHETIC ZEOLITES MARKET, BY REGION, 2016–2023 (USD MILLION)

Table 28 SYNTHETIC ZEOLITES MARKET, BY REGION, 2016–2023 (KILOTONS)

Table 29 ASIA PACIFIC SYNTHETIC ZEOLITES MARKET, BY COUNTRY, 2016–2023 (USD MILLION)

Table 30 ASIA PACIFIC SYNTHETIC ZEOLITES MARKET, BY COUNTRY, 2016–2023 (KILOTONS)

Table 31 ASIA PACIFIC SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 32 ASIA PACIFIC SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTONS)

Table 33 ASIA PACIFIC SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 34 ASIA PACIFIC SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 35 CHINA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 36 CHINA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD KILOTONS)

Table 37 CHINA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 38 CHINA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 39 INDIA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 40 INDIA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTONS)

Table 41 INDIA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 42 INDIA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 43 JAPAN SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 44 JAPAN SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE,

2016–2023 (KILOTONS)

Table 45 JAPAN SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 46 JAPAN SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 47 SOUTH KOREA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 48 SOUTH KOREA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTONS)

Table 49 SOUTH KOREA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 50 SOUTH KOREA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 51 REST OF ASIA PACIFIC SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 52 REST OF ASIA PACIFIC SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTONS)

Table 53 REST OF ASIA PACIFIC SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 54 REST OF ASIA PACIFIC SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 55 NORTH AMERICA SYNTHETIC ZEOLITES MARKET, BY COUNTRY, 2016–2023 (USD MILLION)

Table 56 NORTH AMERICA SYNTHETIC ZEOLITES MARKET, BY COUNTRY, 2016–2023 (KILOTONS)

Table 57 NORTH AMERICA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 58 NORTH AMERICA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 59 NORTH AMERICA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 60 NORTH AMERICA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTON)

Table 61 US SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 62 US SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 63 US SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 64 US SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTON)

Table 65 CANADA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 66 CANADA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 67 CANADA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 68 CANADA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTONS)

Table 69 MEXICO SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 70 MEXICO SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 71 MEXICO SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 72 MEXICO SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTONS)

Table 73 EUROPE SYNTHETIC ZEOLITES MARKET, BY COUNTRY, 2016–2023 (USD MILLION)

Table 74 EUROPE SYNTHETIC ZEOLITES MARKET, BY COUNTRY, 2016–2023 (KILOTONS)

Table 75 EUROPE SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 76 EUROPE SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 77 EUROPE SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 78 EUROPE SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTON)

Table 79 GERMANY SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 80 GERMANY SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 81 GERMANY SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 82 GERMANY SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTON)

Table 83 UK SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD

MILLION)

Table 84 UK SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023  
(KILOTONS)

Table 85 UK SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023  
(USD MILLION)

Table 86 UK SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023  
(KILOTON)

Table 87 ITALY SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023  
(USD MILLION)

Table 88 ITALY SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023  
(KILOTONS)

Table 89 ITALY SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023  
(USD MILLION)

Table 90 ITALY SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023  
(KILOTON)

Table 91 FRANCE SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023  
(USD MILLION)

Table 92 FRANCE SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023  
(KILOTONS)

Table 93 FRANCE SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE,  
2016–2023 (USD MILLION)

Table 94 FRANCE SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE,  
2016–2023 (KILOTON)

Table 95 SPAIN SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023  
(USD MILLION)

Table 96 SPAIN SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023  
(KILOTONS)

Table 97 SPAIN SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE,  
2016–2023 (USD MILLION)

Table 98 SPAIN SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE,  
2016–2023 (KILOTON)

Table 99 REST OF EUROPE SYNTHETIC ZEOLITES MARKET, BY APPLICATION,  
2016–2023 (USD MILLION)

Table 100 REST OF EUROPE SYNTHETIC ZEOLITES MARKET, BY APPLICATION,  
2016–2023 (KILOTONS)

Table 101 REST OF EUROPE SYNTHETIC ZEOLITES MARKET, BY TYPE OF  
ZEOLITE, 2016–2023 (USD MILLION)

Table 102 REST OF EUROPE SYNTHETIC ZEOLITES MARKET, BY TYPE OF  
ZEOLITE, 2016–2023 (KILOTON)

Table 103 MIDDLE EAST & AFRICA SYNTHETIC ZEOLITES MARKET, COUNTRY, 2016–2023 (USD MILLION)

Table 104 MIDDLE EAST & AFRICA SYNTHETIC ZEOLITES MARKET, BY COUNTRY, 2016–2023 (KILOTONS)

Table 105 MIDDLE EAST & AFRICA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 106 MIDDLE EAST & AFRICA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 107 MIDDLE EAST & AFRICA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 108 MIDDLE EAST & AFRICA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTONS)

Table 109 SAUDI ARABIA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 110 SAUDI ARABIA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 111 SAUDI ARABIA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 112 SAUDI ARABIA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTONS)

Table 113 IRAN SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 114 IRAN SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 115 IRAN SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 116 IRAN SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTONS)

Table 117 UAE SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 118 UAE SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 119 UAE SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 120 UAE SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTONS)

Table 121 REST OF MIDDLE EAST & AFRICA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 122 REST OF MIDDLE EAST & AFRICA SYNTHETIC ZEOLITE MARKET, BY

APPLICATION, 2016–2023 (KILOTONS)

Table 123 REST OF MIDDLE EAST & AFRICA SYNTHETIC ZEOLITE MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 124 REST OF MIDDLE EAST & AFRICA SYNTHETIC ZEOLITE MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTONS)

Table 125 SOUTH AMERICA SYNTHETIC ZEOLITES MARKET, BY COUNTRY, 2016–2023 (USD MILLION)

Table 126 SOUTH AMERICA SYNTHETIC ZEOLITES MARKET, BY COUNTRY, 2016–2023 (KILOTONS)

Table 127 SOUTH AMERICA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 128 SOUTH AMERICA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 129 SOUTH AMERICA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 130 SOUTH AMERICA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTONS)

Table 131 BRAZIL SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 132 BRAZIL SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 133 BRAZIL SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 134 BRAZIL SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTON)

Table 135 ARGENTINA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 136 ARGENTINA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 137 ARGENTINA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 138 ARGENTINA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTON)

Table 139 REST OF SOUTH AMERICA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (USD MILLION)

Table 140 REST OF SOUTH AMERICA SYNTHETIC ZEOLITES MARKET, BY APPLICATION, 2016–2023 (KILOTONS)

Table 141 REST OF SOUTH AMERICA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (USD MILLION)

Table 142 REST OF SOUTH AMERICA SYNTHETIC ZEOLITES MARKET, BY TYPE OF ZEOLITE, 2016–2023 (KILOTON)

Table 143 EXPANSIONS, 2014–2018

Table 144 ACQUISITIONS, 2014–2018

Table 145 JOINT VENTURES, 2014–2018

Table 146 AGREEMENTS, 2014–2018

Table 147 PARTNERSHIPS, 2014–2018

Table 148 NEW TECHNOLOGY LAUNCH, 2014–2018

Table 149 NEW PRODUCT LAUNCHES, 2014–2018

Table 150 DIVESTURES, 2014–2018

Table 151 RESEARCH & DEVELOPMENT, 2014–2018

Table 152 COLLABORATIONS, 2014–2018



## List Of Figures

### LIST OF FIGURES

Figure 1 SYNTHETIC ZEOLITES MARKET: RESEARCH DESIGN

Figure 2 BOTTOM-UP APPROACH

Figure 3 TOP-DOWN APPROACH

Figure 4 SYNTHETIC ZEOLITES MARKET: DATA TRIANGULATION

Figure 5 BASED ON TYPE, THE ULTRA-STABLE Y SEGMENT IS EXPECTED TO BE THE LARGEST SEGMENT OF THE SYNTHETIC ZEOLITES MARKET BETWEEN 2018 AND 2023

Figure 6 BASED ON APPLICATION, THE CATALYTIC CRACKING SEGMENT IS EXPECTED TO LEAD THE SYNTHETIC ZEOLITES MARKET BETWEEN 2018 & 2023

Figure 7 BASED ON FUNCTION, THE CATALYST SEGMENT IS EXPECTED TO LEAD THE SYNTHETIC ZEOLITES MARKET BETWEEN 2018 & 2023

Figure 8 NORTH AMERICA IS ESTIMATED TO BE THE LARGEST MARKET FOR SYNTHETIC ZEOLITES IN 2018

Figure 9 RISING DEMAND FOR SYNTHETIC ZEOLITES FROM THE DETERGENT INDUSTRY IS EXPECTED TO DRIVE THE SYNTHETIC ZEOLITES MARKET

Figure 10 ZEOLITE A SEGMENT IS EXPECTED TO LEAD ZEOLITE MARKET DURING THE FORECAST PERIOD

Figure 11 DETERGENT BUILDER SEGMENT IS EXPECTED TO LEAD THE SYNTHETIC ZEOLITES MARKET DURING THE FORECAST PERIOD

Figure 12 SYNTHETIC ZEOLITES MARKET IN ASIA PACIFIC IS EXPECTED TO GROW AT THE HIGHEST CAGR DURING THE FORECAST PERIOD

Figure 13 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES FOR THE SYNTHETIC ZEOLITES MARKET

Figure 14 PORTER'S FIVE FORCES ANALYSIS

Figure 15 CATALYST SEGMENT TO LEAD SYNTHETIC ZEOLITES MARKET FROM 2018 TO 2023

Figure 16 CATALYTIC CRACKING EXPECTED TO BE THE LARGEST APPLICATION SEGMENT IN THE SYNTHETIC ZEOLITES MARKET

Figure 17 ASIA PACIFIC EXPECTED TO LEAD THE DETERGENT BUILDER APPLICATION

Figure 18 ASIA PACIFIC IS EXPECTED TO BE THE LARGEST MARKET FOR DETERGENT BUILDER APPLICATION

Figure 19 NORTH AMERICA EXPECTED TO LEAD THE DRYING, SEPARATION, AND ADSORPTION SEGMENT IN THE SYNTHETIC ZEOLITES MARKET

Figure 20 ASIA PACIFIC EXPECTED TO LEAD THE DRYING, SEPARATION, AND

## ADSORPTION SEGMENT IN THE SYNTHETIC ZEOLITES MARKET

Figure 21 NORTH AMERICA EXPECTED TO BE THE LARGEST CONSUMER OF SYNTHETIC ZEOLITES IN FOR THE CATALYTIC CRACKING SEGMENT

Figure 22 NORTH AMERICA EXPECTED TO BE THE LARGEST MARKET FOR CATALYTIC CRACKING SEGMENT

Figure 23 NORTH AMERICA EXPECTED TO LEAD THE SPECIALTIES SEGMENT

Figure 24 ASIA PACIFIC EXPECTED TO BE THE LARGEST CONSUMER OF SYNTHETIC ZEOLITES FOR THE SPECIALTIES SEGMENT

Figure 25 ULTRA-STable Y (USY) EXPECTED TO BE THE LARGEST TYPE SEGMENT IN TERMS OF MARKET VALUE DURING THE FORECAST PERIOD

Figure 26 ZEOLITE A EXPECTED TO BE THE MOST CONSUMED TYPE OF SYNTHETIC ZEOLITE DURING THE FORECAST PERIOD

Figure 27 ASIA PACIFIC EXPECTED TO HOLD THE LARGEST SHARE OF THE ZEOLITEA MARKET IN 2018

Figure 28 ASIA PACIFIC EXPECTED TO BE THE LARGEST ZEOLITE A CONSUMER THROUGHOUT THE FORECAST PERIOD

Figure 29 ASIA PACIFIC EXPECTED TO LEAD THE TYPE X SEGMENT OF THE SYNTHETIC ZEOLITES MARKET IN TERMS OF VALUE THROUGHOUT THE FORECAST PERIOD

Figure 30 ASIA PACIFIC EXPECTED TO LEAD THE TYPE X SEGMENT OF THE SYNTHETIC ZEOLITES MARKET IN TERMS OF VOLUME

Figure 31 NORTH AMERICA EXPECTED TO LEAD THE TYPE Y SEGMENT OF THE SYNTHETIC ZEOLITES MARKET IN TERMS OF VALUE

Figure 32 NORTH AMERICA IS EXPECTED TO BE THE LARGEST MARKET FOR TYPE Y ZEOLITES MARKET IN TERMS OF VOLUME IN 2018

Figure 33 NORTH AMERICA EXPECTED TO LEAD THE ULTRA-STable Y (USY) TYPE SEGMENT OF THE SYNTHETIC ZEOLITES MARKET IN TERMS OF VALUE

Figure 34 NORTH AMERICA IS EXPECTED TO BE THE LARGEST MARKET FOR ULTRA-STable Y (USY) TYPE SEGMENT IN TERMS OF VOLUME IN 2018

Figure 35 NORTH AMERICA EXPECTED TO LEAD THE ZSM-5 TYPE SEGMENT OF THE SYNTHETIC ZEOLITES MARKET IN TERMS OF VALUE

Figure 36 NORTH AMERICA IS EXPECTED TO BE THE LEADING MARKET FOR ZSM-5 TYPE SEGMENT IN TERMS OF VOLUME

Figure 37 CHINA AND INDIA ARE EXPECTED TO BE AMONG THE FASTEST-GROWING MARKETS FOR SYNTHETIC ZEOLITES IN TERMS OF VALUE DURING THE FORECAST PERIOD

Figure 38 ASIA PACIFIC SYNTHETIC ZEOLITES MARKET SNAPSHOT

Figure 39 NORTH AMERICA SYNTHETIC ZEOLITES MARKET SNAPSHOT

Figure 40 EUROPE SYNTHETIC ZEOLITES MARKET SNAPSHOT

Figure 41 MIDDLE EAST & AFRICA SYNTHETIC ZEOLITES MARKET SNAPSHOT

Figure 42 SOUTH AMERICA SYNTHETIC ZEOLITES MARKET SNAPSHOT

Figure 43 COMPANIES ADOPTED BOTH ORGANIC AND INORGANIC GROWTH STRATEGIES BETWEEN JANUARY 2014 AND OCTOBER 2018

Figure 44 ALBEMARLE CORPORATION: COMPANY SNAPSHOT

Figure 45 BASF SE: COMPANY SNAPSHOT

Figure 46 HONEYWELL INTERNATIONAL INC: COMPANY SNAPSHOT

Figure 47 CLARIANT AG: COMPANY SNAPSHOT

Figure 48 W. R. GRACE & CO: COMPANY SNAPSHOT

Figure 49 TOSOH CORPORATION: COMPANY SNAPSHOT

Figure 50 ARKEMA S.A: COMPANY SNAPSHOT

Figure 51 NATIONAL ALUMINUM COMPANY LIMITED (NALCO): COMPANY SNAPSHOT

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