

# **Ceramic Membrane Market by Material (Titania, Alumina, Zirconium Oxide), by Application (Water and Wastewater Technology, Pharmaceuticals, Food and Beverage, Chemical Processing, Biotechnology), by Technology (Ultrafiltration, Microfiltration, Nanofiltration), by Region - Global Trends & Forecasts to 2020**

<https://marketpublishers.com/r/CE08E64E2DAEN.html>

Date: July 2015

Pages: 147

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

ID: CE08E64E2DAEN

## **Abstracts**

Ceramic membranes are defined as a chemically, mechanically, and thermally stable material having higher permeance and low membrane resistance as compared to polymeric membranes. They have the capability to provide mild, highly selective filtration process with high flux and without phase transformation and possess specific functional attributes. Ceramic membranes are used for engineering applications owing to their inherent characteristics, such as heat resistance, high durability, bacteria resistance, back flushing and steam sterilization, and high abrasion resistance.

Asia-Pacific region, being the largest consumer of ceramic membranes, is experiencing a steady growth due to increasing demand of ceramic membranes technologies and effective filtration & separation processes. The growth in manufacturing industries due to the increasing downstream demand is the major factor responsible for the growth of ceramic membranes market in China. Extensive usage of advanced ceramic membranes technologies, such as ultrafiltration, microfiltration, and nanofiltration for efficient water & wastewater treatment to overcome the water scarcity and water distribution challenges also contribute to the dominance of China in Asia-Pacific region.

The dominance of Chinese ceramic membranes market is expected to continue till 2020 at a steady growth rate due to continuous innovations along with industry consolidations

thus asserting a bright future for the ceramic membranes industry in APAC.

Ultrafiltration is the major technology of ceramic membranes market. It is an efficient and cost-effective water treatment technology that helps in removal of high molecular weight substances, colloidal, and other molecules. The ultrafiltration ceramic membranes technology is used for removal of germs, viruses, bacteria, and all suspended solids without any chemical additives. Due to its simple and safe operation and management, UF technology is widely used in various application industries, such as water & wastewater treatment, food & beverages, pharmaceuticals, biotechnology, chemical processing, and others.

This study estimates the market value for ceramic membranes and projects the same by 2020. As a part of qualitative analysis, the research provides a comprehensive review of major market drivers, restraints, opportunities, burning issues, and challenges in the market. The study segments the market by material, technology, and application industry at country level with the current market estimation and forecast till 2020. The countries covered in the report are China, Japan, India, Brazil, Germany, the U.K., France, Mexico, Canada, and the U.S. The segmentation by material includes alumina, zirconium oxide, titania, and others. The segmentation by technology includes ultrafiltration, microfiltration, nanofiltration, and others. The segmentation by application industry includes water & wastewater treatment, pharmaceuticals, food & beverages, biotechnology, chemical processing, and others.

It also includes the company profiles and competitive strategies adopted by different market players, including PALL Corporation (U.S.), TAMI Industries (France), HYFLUX Ltd. (Singapore), Veolia Water Technologies (France), and Metawater Co., Ltd. (Japan).

## Contents

### **1 INTRODUCTION**

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

### **2 RESEARCH METHODOLOGY**

- 2.1 MARKET SIZE ESTIMATION
- 2.2 MARKET BREAKDOWN & DATA TRIANGULATION
- 2.3 MARKET SHARE ESTIMATION
  - 2.3.1 KEY DATA FROM SECONDARY SOURCES
  - 2.3.2 KEY DATA FROM PRIMARY SOURCES
  - 2.3.3 KEY INDUSTRY INSIGHTS
- 2.4 ASSUMPTIONS

### **3 EXECUTIVE SUMMARY**

### **4 PREMIUM INSIGHTS**

- 4.1 ATTRACTIVE MARKET OPPORTUNITIES IN THE CERAMIC MEMBRANES MARKET
- 4.2 CERAMIC MEMBRANES MARKET: REGIONAL SEGMENTS
- 4.3 CERAMIC MEMBRANES MARKET IN ASIA-PACIFIC
- 4.4 CERAMIC MEMBRANES REGIONAL MARKET GROWTH
- 4.5 CERAMIC MEMBRANES MARKET, BY APPLICATION (2015-2020)
- 4.6 LIFECYCLE ANALYSIS BY REGION

### **5 MARKET OVERVIEW**

- 5.1 INTRODUCTION
- 5.2 EVOLUTION

## 5.3 MARKET SEGMENTATION

### 5.3.1 CERAMIC MEMBRANES MARKET, BY MATERIAL

### 5.3.2 CERAMIC MEMBRANES MARKET, BY APPLICATION

## 5.4 MARKET DYNAMICS

### 5.4.1 DRIVERS

5.4.1.1 Requirement of high purity components in industrial applications

5.4.1.2 Requirement for quality water globally

5.4.1.3 Recovery of materials

### 5.4.2 RESTRAINT

5.4.2.1 High capital costs

### 5.4.3 OPPORTUNITIES

5.4.3.1 Growing demand for water desalination

5.4.3.2 Growing demand for ceramic membranes in emerging economic regions

### 5.4.4 CHALLENGE

5.4.4.1 Certified water quality

## 5.5 BURNING ISSUE

### 5.5.1 NEED FOR LOW-COST TECHNOLOGIES

## 6 INDUSTRY TRENDS

### 6.1 INTRODUCTION

### 6.2 SUPPLY CHAIN ANALYSIS

### 6.3 CERAMIC MEMBRANE RAW MATERIALS ANALYSIS

### 6.4 PORTER'S FIVE FORCES ANALYSIS

6.4.1 BARGAINING POWER OF SUPPLIERS

6.4.2 THREAT OF NEW ENTRANTS

6.4.3 THREAT OF SUBSTITUTES

6.4.4 BARGAINING POWER OF BUYERS

6.4.5 INTENSITY OF RIVALRY

## 7 CERAMIC MEMBRANES MARKET, BY MATERIAL

### 7.1 INTRODUCTION

### 7.2 ALUMINA

### 7.3 ZIRCONIUM OXIDE

### 7.4 TITANIA

### 7.5 OTHER MATERIALS

## 8 CERAMIC MEMBRANES MARKET, BY APPLICATION

- 8.1 INTRODUCTION
- 8.2 WATER AND WASTEWATER TREATMENT
- 8.3 PHARMACEUTICALS
- 8.4 FOOD & BEVERAGE
- 8.5 CHEMICAL PROCESSING
- 8.6 BIOTECHNOLOGY
- 8.7 OTHER APPLICATIONS

## **9 CERAMIC MEMBRANES MARKET, BY TECHNOLOGY**

- 9.1 INTRODUCTION
- 9.2 ULTRAFILTRATION
- 9.3 MICROFILTRATION
- 9.4 NANOFILTRATION
- 9.5 OTHERS

## **10 CERAMIC MEMBRANES MARKET, REGIONAL ANALYSIS**

- 10.1 INTRODUCTION
- 10.2 ASIA-PACIFIC
  - 10.2.1 CHINA
  - 10.2.2 JAPAN
  - 10.2.3 INDIA
  - 10.2.4 REST OF ASIA-PACIFIC
- 10.3 NORTH AMERICA
  - 10.3.1 U.S.
  - 10.3.2 CANADA
  - 10.3.3 MEXICO
- 10.4 EUROPE
  - 10.4.1 GERMANY
  - 10.4.2 U.K.
  - 10.4.3 FRANCE
  - 10.4.4 REST OF EUROPE
- 10.5 REST OF THE WORLD (ROW)
  - 10.5.1 BRAZIL
  - 10.5.2 SOUTH AFRICA
  - 10.5.3 OTHERS IN ROW

## **11 COMPETITIVE LANDSCAPE**

### 11.1 INTRODUCTION

### 11.2 COMPETITIVE SITUATION & TRENDS

#### 11.2.1 NEW PRODUCT LAUNCHES

#### 11.2.2 EXPANSIONS

#### 11.2.3 PARTNERSHIPS & JOINT VENTURES

#### 11.2.4 AGREEMENTS, CONTRACTS & COLLABORATIONS

#### 11.2.5 MERGERS & ACQUISITIONS

## **12 COMPANY PROFILES**

(Overview, Financial\*, Products & Services, Strategy, and Developments)

### 12.1 INTRODUCTION

### 12.2 TAMI INDUSTRIES

### 12.3 PALL CORPORATION

### 12.4 ATECH INNOVATIONS GMBH

### 12.5 HYFLUX LTD.

### 12.6 JIANGSU JIUWU HI-TECH CO., LTD.

### 12.7 METAWATER CO., LTD

### 12.8 GEA GROUP

### 12.9 ITN NANOVATION AG

### 12.10 VEOLIA WATER TECHNOLOGIES

### 12.11 SIVA

\*Details might not be captured in case of unlisted companies.

## **13 APPENDIX**

### 13.1 INSIGHTS FROM INDUSTRIAL EXPERTS

### 13.2 DISCUSSION GUIDE

### 13.3 INTRODUCING RT: REAL TIME MARKET INTELLIGENCE

### 13.4 AVAILABLE CUSTOMIZATIONS

### 13.5 RELATED REPORTS

## List Of Tables

### LIST OF TABLES

TABLE 1 IMPACT ANALYSIS OF DRIVERS

TABLE 2 IMPACT ANALYSIS OF RESTRAINTS

TABLE 3 IMPACT ANALYSIS OF OPPORTUNITIES

TABLE 4 IMPACT ANALYSIS OF CHALLENGE

TABLE 5 RAW MATERIALS USED FOR CERAMIC MEMBRANES

TABLE 6 COMPARISON OF CERAMIC MEMBRANE MATERIALS

TABLE 7 CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL, 2013–2020 (USD MILLION)

TABLE 8 ALUMINA MARKET SIZE, BY REGION, 2013–2020 (USD MILLION)

TABLE 9 ZIRCONIUM OXIDE (ZIRCONIA) MARKET SIZE, BY REGION, 2013–2020 (USD MILLION)

TABLE 10 TITANIA MARKET SIZE, BY REGION, 2013–2020 (USD MILLION)

TABLE 11 OTHER MATERIALS IN CERAMIC CERAMIC MEMBRANES MARKET SIZE, BY REGION, 2013–2020 (USD MILLION)

TABLE 12 WATER AND WASTEWATER TREATMENT IN CERAMIC MEMBRANES MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

TABLE 13 PHARMACEUTICALS IN CERAMIC MEMBRANES MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

TABLE 14 FOOD & BEVERAGE IN CERAMIC MEMBRANES MARKET SIZE, 2013-2020 (USD MILLION)

TABLE 15 CHEMICAL PROCESSING IN CERAMIC MEMBRANES MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

TABLE 16 BIOTECHNOLOGY IN CERAMIC MEMBRANES MARKET SIZE, 2013-2020 (USD MILLION)

TABLE 17 OTHER APPLICATIONS IN CERAMIC MEMBRANES MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

TABLE 18 ULTRAFILTRATION IN CERAMIC MEMBRANES MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

TABLE 19 MICROFILTRATION IN CERAMIC MEMBRANES MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

TABLE 20 NANOFILTRATION IN CERAMIC MEMBRANES MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

TABLE 21 OTHERS IN CERAMIC MEMBRANES MARKET SIZE, BY REGION, 2013-2020 (USD MILLION)

TABLE 22 CERAMIC MEMBRANES MARKET SIZE, BY REGION, 2013-2020 (USD

MILLION)

TABLE 23 ASIA-PACIFIC: CERAMIC MEMBRANES MARKET SIZE, BY COUNTRY, 2013-2020 (USD MILLION)

TABLE 24 ASIA-PACIFIC: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL, 2013-2020 (USD MILLION)

TABLE 25 ASIA-PACIFIC: CERAMIC MEMBRANES MARKET SIZE, BY APPLICATION, 2013-2020 (USD MILLION)

TABLE 26 ASIA-PACIFIC: CERAMIC MEMBRANES MARKET SIZE, BY TECHNOLOGY, 2013-2020 (USD MILLION)

TABLE 27 CHINA: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL, 2013-2020 (USD MILLION)

TABLE 28 CHINA: CERAMIC MEMBRANES MARKET SIZE, BY APPLICATION, 2013-2020 (USD MILLION)

TABLE 29 CHINA: CERAMIC MEMBRANES MARKET SIZE, BY TECHNOLOGY, 2013-2020 (USD MILLION)

TABLE 30 JAPAN: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL, 2013-2020 (USD MILLION)

TABLE 31 JAPAN: CERAMIC MEMBRANES MARKET SIZE, BY APPLICATION, 2013-2020 (USD MILLION)

TABLE 32 JAPAN: CERAMIC MEMBRANES MARKET SIZE, BY TECHNOLOGY, 2013-2020 (USD MILLION)

TABLE 33 INDIA: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL, 2013-2020 (USD MILLION)

TABLE 34 INDIA: CERAMIC MEMBRANES MARKET SIZE, BY APPLICATION, 2013-2020 (USD MILLION)

TABLE 35 INDIA: CERAMIC MEMBRANES MARKET SIZE, BY TECHNOLOGY, 2013-2020 (USD MILLION)

TABLE 36 REST OF ASIA-PACIFIC: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL, 2013-2020 (USD MILLION)

TABLE 37 REST OF ASIA-PACIFIC: CERAMIC MEMBRANES MARKET SIZE, BY APPLICATION, 2013-2020 (USD MILLION)

TABLE 38 REST OF ASIA-PACIFIC: CERAMIC MEMBRANES MARKET SIZE, BY TECHNOLOGY, 2013-2020 (USD MILLION)

TABLE 39 NORTH AMERICA: CERAMIC MEMBRANES MARKET SIZE, BY COUNTRY, 2013-2020 (USD MILLION)

TABLE 40 NORTH AMERICA: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL, 2013-2020 (USD MILLION)

TABLE 41 NORTH AMERICA: CERAMIC MEMBRANES MARKET SIZE, BY APPLICATION, 2013-2020 (USD MILLION)



TABLE 42 NORTH AMERICA: CERAMIC MEMBRANES MARKET SIZE, BY TECHNOLOGY, 2013-2020 (USD MILLION)

TABLE 43 U.S.: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL, 2013-2020 (USD MILLION)

TABLE 44 U.S.: CERAMIC MEMBRANES MARKET SIZE, BY APPLICATION, 2013-2020 (USD MILLION)

TABLE 45 U.S.: CERAMIC MEMBRANES MARKET SIZE, BY TECHNOLOGY, 2013-2020 (USD MILLION)

TABLE 46 CANADA: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL, 2013-2020 (USD MILLION)

TABLE 47 CANADA: CERAMIC MEMBRANES MARKET SIZE, BY APPLICATION, 2013-2020 (USD MILLION)

TABLE 48 CANADA: CERAMIC MEMBRANES MARKET SIZE, BY TECHNOLOGY, 2013-2020 (USD MILLION)

TABLE 49 MEXICO: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL, 2013-2020 (USD MILLION)

TABLE 50 MEXICO: CERAMIC MEMBRANES MARKET SIZE, BY APPLICATION, 2013-2020 (USD MILLION)

TABLE 51 MEXICO: CERAMIC MEMBRANES MARKET SIZE, BY TECHNOLOGY, 2013-2020 (USD MILLION)

TABLE 52 EUROPE: CERAMIC MEMBRANES MARKET SIZE, BY COUNTRY, 2013-2020 (USD MILLION)

TABLE 53 EUROPE: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL, 2013-2020 (USD MILLION)

TABLE 54 EUROPE: CERAMIC MEMBRANES MARKET SIZE, BY APPLICATION, 2013-2020 (USD MILLION)

TABLE 55 EUROPE: CERAMIC MEMBRANES MARKET SIZE, BY TECHNOLOGY, 2013-2020 (USD MILLION)

TABLE 56 GERMANY: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL, 2013-2020 (USD MILLION)

TABLE 57 GERMANY: CERAMIC MEMBRANES MARKET SIZE, BY APPLICATION, 2013-2020 (USD MILLION)

TABLE 58 GERMANY: CERAMIC MEMBRANES MARKET SIZE, BY TECHNOLOGY, 2013-2020 (USD MILLION)

TABLE 59 U.K.: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL, 2013-2020 (USD MILLION)

TABLE 60 U.K.: CERAMIC MEMBRANES MARKET SIZE, BY APPLICATION, 2013-2020 (USD MILLION)

TABLE 61 UK: CERAMIC MEMBRANES MARKET SIZE, BY TECHNOLOGY,

2013-2020 (USD MILLION)

TABLE 62 FRANCE: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL,  
2013-2020 (USD MILLION)

TABLE 63 FRANCE: CERAMIC MEMBRANES MARKET SIZE, BY APPLICATION,  
2013-2020 (USD MILLION)

TABLE 64 FRANCE: CERAMIC MEMBRANES MARKET SIZE, BY TECHNOLOGY,  
2013-2020 (USD MILLION)

TABLE 65 REST OF EUROPE: CERAMIC MEMBRANES MARKET SIZE, BY  
MATERIAL, 2013-2020 (USD MILLION)

TABLE 66 REST OF EUROPE: CERAMIC MEMBRANES MARKET SIZE, BY  
APPLICATION, 2013-2020 (USD MILLION)

TABLE 67 REST OF EUROPE: CERAMIC MEMBRANES MARKET SIZE, BY  
TECHNOLOGY, 2013-2020 (USD MILLION)

TABLE 68 ROW: CERAMIC MEMBRANES MARKET SIZE, BY COUNTRY, 2013-2020  
(USD MILLION)

TABLE 69 ROW: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL, 2013-2020  
(USD MILLION)

TABLE 70 ROW.: CERAMIC MEMBRANES MARKET SIZE, BY APPLICATION,  
2013-2020 (USD MILLION)

TABLE 71 ROW: CERAMIC MEMBRANES MARKET SIZE, BY TECHNOLOGY,  
2013-2020 (USD MILLION)

TABLE 72 BRAZIL: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL,  
2013-2020 (USD MILLION)

TABLE 73 BRAZIL: CERAMIC MEMBRANES MARKET SIZE, BY APPLICATION,  
2013-2020 (USD MILLION)

TABLE 74 BRAZIL: CERAMIC MEMBRANES MARKET SIZE, BY TECHNOLOGY,  
2013-2020 (USD MILLION)

TABLE 75 SOUTH AFRICA: CERAMIC MEMBRANES MARKET SIZE, BY MATERIAL,  
2013-2020 (USD MILLION)

TABLE 76 SOUTH AFRICA: CERAMIC MEMBRANES MARKET SIZE, BY  
APPLICATION, 2013-2020 (USD MILLION)

TABLE 77 SOUTH AFRICA: CERAMIC MEMBRANES MARKET SIZE, BY  
TECHNOLOGY, 2013-2020 (USD MILLION)

TABLE 78 OTHERS IN ROW: CERAMIC MEMBRANES MARKET SIZE, BY  
MATERIAL, 2013-2020 (USD MILLION)

TABLE 79 OTHERS IN ROW: CERAMIC MEMBRANES MARKET SIZE, BY  
APPLICATION, 2013-2020 (USD MILLION)

TABLE 80 OTHERS IN ROW: CERAMIC MEMBRANES MARKET SIZE, BY  
TECHNOLOGY, 2013-2020 (USD MILLION)

TABLE 81 NEW PRODUCT LAUNCHES & PRODUCT DEVELOPMENT/INNOVATION,  
2010-2015

TABLE 82 EXPANSIONS, 2010-2015

TABLE 83 PARTNERSHIPS & JOINT VENTURES, 2010-2015

TABLE 84 AGREEMENTS, CONTRACTS & COLLABORATIONS, 2010-2015

TABLE 85 MERGERS & ACQUISITIONS, 2010-2015

## List Of Figures

### LIST OF FIGURES

- FIGURE 1 CERAMIC MEMBRANES MARKET SEGMENTATION
- FIGURE 2 CERAMIC MEMBRANES MARKET: RESEARCH DESIGN
- FIGURE 3 MARKET SIZE ESTIMATION: BOTTOM-UP APPROACH
- FIGURE 4 MARKET SIZE ESTIMATION: TOP-DOWN APPROACH
- FIGURE 5 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION & REGION
- FIGURE 6 MARKET BREAKDOWN AND DATA TRIANGULATION
- FIGURE 7 WATER AND WASTERWATER TREATMENT TO DOMINATE THE MARKET BETWEEN 2015 AND 2020
- FIGURE 8 CERAMIC MEMBRANES MARKET, BY TECHNOLOGY
- FIGURE 9 ASIA-PACIFIC CERAMIC MEMBRANES MARKET TO REGISTER THE HIGHEST GROWTH DURING THE PROJECTED PERIOD
- FIGURE 10 ASIA-PACIFIC WAS THE LARGEST CONSUMER OF CERAMIC MEMBRANES, 2014
- FIGURE 11 CERAMIC MEMBRANES MARKET SIZE, 2015-2020 (USD MILLION)
- FIGURE 12 ASIA-PACIFIC REGION TO BE THE FASTEST-GROWING REGION DURING THE PROJECTED PERIOD
- FIGURE 13 CHINA CAPTURED THE LARGEST SHARE OF THE ASIA-PACIFIC CERAMIC MEMBRANES MARKET, 2014
- FIGURE 14 CERAMIC MEMBRANES MARKET TO REGISTER HIGH GROWTH IN EMERGING ECONOMIES BETWEEN 2015 & 2020
- FIGURE 15 CERAMIC MEMBRANES MARKET: REGIONAL SNAPSHOT, 2014
- FIGURE 16 ASIA-PACIFIC IS ESTIMATED TO GROW AT A HIGHER RATE IN COMPARISON WITH OTHER REGIONS DURING THE FORECAST PERIOD (2015-2020)
- FIGURE 17 HIGH GROWTH POTENTIAL IN ASIA-PACIFIC REGION FOR THE CERAMIC MEMBRANES, 2015-2020
- FIGURE 18 RAPID DEVELOPMENT OF CERAMIC MEMBRANES FOR INDUSTRY APPLICATIONS
- FIGURE 19 CERAMIC MEMBRANES MARKET, BY MATERIAL
- FIGURE 20 CERAMIC MEMBRANES MARKET, BY APPLICATION
- FIGURE 21 OVERVIEW OF MARKET GOVERNING THE CERAMIC MEMBRANES MARKET
- FIGURE 22 SUPPLY CHAIN ANALYSIS
- FIGURE 23 PORTER'S FIVE FORCES ANALYSIS

- FIGURE 24 ALUMINA MARKET SIZE & FORECAST, BY REGION, 2015 VS. 2020
- FIGURE 25 ASIA-PACIFIC IS EXPECTED TO DRIVE THE CERAMIC MEMBRANES MARKET IN WATER AND WASTEWATER TREATMENT INDUSTRY, 2015 VS 2020
- FIGURE 26 ASIA-PACIFIC IS EXPECTED TO DRIVE THE CERAMIC MEMBRANES MARKET IN FOOD & BEVERAGE INDUSTRY, 2015 VS. 2020
- FIGURE 27 ASIA-PACIFIC IS EXPECTED TO DRIVE THE CERAMIC MEMBRANES MARKET IN ULTRAFILTRATION TECHNOLOGY, 2015 VS. 2020
- FIGURE 28 ASIA-PACIFIC IS EXPECTED TO DRIVE THE CERAMIC MEMBRANES MARKET IN NANOFILTRATION TECHNOLOGY, 2015 VS. 2020
- FIGURE 29 CERAMIC MEMBRANES MARKET SHARE, BY REGION, 2014 (%)
- FIGURE 30 CERAMIC MEMBRANES MARKET APPLICATIONS, BY REGION, 2015-2020 CAGR (%)
- FIGURE 31 ASIA-PACIFIC MARKET SNAPSHOT: CHINA IS THE LUCRATIVE MARKET FOR CERAMIC MEMBRANES
- FIGURE 32 NORTH AMERICA MARKET SNAPSHOT: U.S. IS THE LUCRATIVE MARKET FOR CERAMIC MEMBRANES
- FIGURE 33 EUROPE MARKET SNAPSHOT: GERMANY IS THE LUCRATIVE MARKET FOR CERAMIC MEMBRANES
- FIGURE 34 ASIA-PACIFIC MARKET SNAPSHOT: CHINA IS THE LUCRATIVE MARKET FOR CERAMIC MEMBRANES
- FIGURE 35 COMPANIES PRIMARILY ADOPTED ORGANIC GROWTH STRATEGIES, 2010-2015
- FIGURE 36 PALL CORPORATION GREW AT THE HIGHEST RATE BETWEEN 2010-2014
- FIGURE 37 BATTLE FOR MARKET SHARE: NEW PRODUCT LAUNCH WAS THE KEY STRATEGY, 2010–2014
- FIGURE 38 CERAMIC MEMBRANES REGIONAL REVENUE MIX OF MAJOR PLAYERS
- FIGURE 39 TAMI INDUSTRIES: SWOT ANALYSIS
- FIGURE 40 PALL CORPORATION: COMPANY SNAPSHOT
- FIGURE 41 PALL CORPORATION: SWOT ANALYSIS
- FIGURE 42 ATECH INNOVATIONS GMBH: SWOT ANALYSIS
- FIGURE 43 HYFLUX LTD.: COMPANY SNAPSHOT
- FIGURE 44 HYFLUX LTD.: SWOT ANALYSIS
- FIGURE 45 JIANGSU JIUWU HI-TECH CO., LTD.: SWOT ANALYSIS
- FIGURE 46 METAWATER CO., LTD.: COMPANY SNAPSHOT
- FIGURE 47 METAWATER CO., LTD.: SWOT ANALYSIS
- FIGURE 48 GEA GROUP: COMPANY SNAPSHOT
- FIGURE 49 GEA GROUP: SWOT ANALYSIS

FIGURE 50 ITN NANO VATION AG.: COMPANY SNAPSHOT

FIGURE 51 ITN NANO VATION AG SWOT ANALYSIS

FIGURE 52 VEOLIA WATER TECHNOLOGIES: COMPANY SNAPSHOT

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