

2018-2023 Global Fuel Cell Membranes Consumption Market Report

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Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global Fuel Cell Membranes market for 2018-2023.

A fuel cell is a device that generates electricity through the reverse electrolysis chemical reaction in which hydrogen and oxygen react to produce water and electricity. The fuel for fuel cells is hydrogen and oxygen; hydrogen can be a gas from water electrolysis, or produced by reforming natural gas, petroleum or methanol, while oxygen is taken in from the atmosphere. As it generates electricity, the fuel cell also produces heat, so high hopes are held for its commercialization and application in a diverse range of applications as a new highly efficient energy system.

A fuel cell consists of an electrolyte between two electrodes, and a conducting wire linking the two electrodes. Hydrogen fed to one electrode (fuel electrode) divides into hydrogen ions and electrons on the electrode. Hydrogen ions flow through the electrolyte to the other electrode, to which air is fed (air electrode). Electrons flow from the fuel electrode to the air electrode through the conducting wire linking the two electrodes. At this time, the electrical current flows in the opposite direction. At the air electrode, the hydrogen ions react with the oxygen and electrons to produce water and heat.

The fuel cell, allied with renewables, is the key to combating climate change. Fuel cell technology is the optimum option in this regard. It can be used for the stationary generation of power and heat in residential housing, in mobile applications for cars, buses and ships, and even as a provider of electricity for portable electronic devices. Fuel Cell Membranes are the core component of fuel cell stack.

The key players are Dupont (Chemours), 3M, Gore, Solvay, BWT Group, AKC, BASF,

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Oceanit, Wuhan WUT, Dongyue Group and so on.

The leading companies own the advantages on better performance, more abundant product's types, better technical and impeccable after-sales service. Consequently, they take the majority of the market share of high-end market. Looking to the future years, the slow downward price trend in recent years will maintain. The industry is expected to remain innovation-led, with frequent acquisitions and strategic alliances adopted as the key strategies by the players to increase their industry presence. Significant and lasting barriers make entry into this market difficult. These barriers include, but are not limited to: (i) product development costs; (ii) capital requirements; (iii) intellectual property rights; (iv) regulatory requirement; and (v) Transitions' unfair methods of competition.

Despite the presence of competition problems, due to the global recovery trend is clear, investors are still optimistic about this area, the future will still have more new investment enter the field. Even so, the market is intensely competitive. The study group recommends the new entrants just having money but without technical advantage and upstream and downstream support do not to enter into this field.

Over the next five years, LPI(LP Information) projects that Fuel Cell Membranes will register a 17.6% CAGR in terms of revenue, reach US\$ 350 million by 2023, from US\$ 130 million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of Fuel Cell Membranes market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

Perfluorosulfonic Acid Membranes

Others (Composite PEM, etc.)

Segmentation by application:

Stationary

Transportation

Portable

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

Dupont (Chemours)

3M

Gore

Solvay

BWT Group

AKC

BASF

Oceanit

Wuhan WUT

Dongyue Group

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

Research objectives

To study and analyze the global Fuel Cell Membranes consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of Fuel Cell Membranes market by identifying its various subsegments.

Focuses on the key global Fuel Cell Membranes manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Fuel Cell Membranes with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of Fuel Cell Membranes submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Research Objectives
- 1.3 Years Considered
- 1.4 Market Research Methodology
- 1.5 Economic Indicators
- 1.6 Currency Considered

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Fuel Cell Membranes Consumption 2013-2023
 - 2.1.2 Fuel Cell Membranes Consumption CAGR by Region
- 2.2 Fuel Cell Membranes Segment by Type
 - 2.2.1 Perfluorosulfonic Acid Membranes
 - 2.2.2 Others (Composite PEM, etc.)
- 2.3 Fuel Cell Membranes Consumption by Type
 - 2.3.1 Global Fuel Cell Membranes Consumption Market Share by Type (2013-2018)
 - 2.3.2 Global Fuel Cell Membranes Revenue and Market Share by Type (2013-2018)
 - 2.3.3 Global Fuel Cell Membranes Sale Price by Type (2013-2018)
- 2.4 Fuel Cell Membranes Segment by Application
 - 2.4.1 Stationary
 - 2.4.2 Transportation
 - 2.4.3 Portable
- 2.5 Fuel Cell Membranes Consumption by Application
 - 2.5.1 Global Fuel Cell Membranes Consumption Market Share by Application (2013-2018)
 - 2.5.2 Global Fuel Cell Membranes Value and Market Share by Application (2013-2018)
 - 2.5.3 Global Fuel Cell Membranes Sale Price by Application (2013-2018)

3 GLOBAL FUEL CELL MEMBRANES BY PLAYERS

- 3.1 Global Fuel Cell Membranes Sales Market Share by Players
 - 3.1.1 Global Fuel Cell Membranes Sales by Players (2016-2018)
 - 3.1.2 Global Fuel Cell Membranes Sales Market Share by Players (2016-2018)

3.2 Global Fuel Cell Membranes Revenue Market Share by Players

3.2.1 Global Fuel Cell Membranes Revenue by Players (2016-2018)

3.2.2 Global Fuel Cell Membranes Revenue Market Share by Players (2016-2018)

3.3 Global Fuel Cell Membranes Sale Price by Players

3.4 Global Fuel Cell Membranes Manufacturing Base Distribution, Sales Area, Product Types by Players

3.4.1 Global Fuel Cell Membranes Manufacturing Base Distribution and Sales Area by Players

3.4.2 Players Fuel Cell Membranes Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) (2016-2018)

3.6 New Products and Potential Entrants

3.7 Mergers & Acquisitions, Expansion

4 FUEL CELL MEMBRANES BY REGIONS

4.1 Fuel Cell Membranes by Regions

4.1.1 Global Fuel Cell Membranes Consumption by Regions

4.1.2 Global Fuel Cell Membranes Value by Regions

4.2 Americas Fuel Cell Membranes Consumption Growth

4.3 APAC Fuel Cell Membranes Consumption Growth

4.4 Europe Fuel Cell Membranes Consumption Growth

4.5 Middle East & Africa Fuel Cell Membranes Consumption Growth

5 AMERICAS

5.1 Americas Fuel Cell Membranes Consumption by Countries

5.1.1 Americas Fuel Cell Membranes Consumption by Countries (2013-2018)

5.1.2 Americas Fuel Cell Membranes Value by Countries (2013-2018)

5.2 Americas Fuel Cell Membranes Consumption by Type

5.3 Americas Fuel Cell Membranes Consumption by Application

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Key Economic Indicators of Few Americas Countries

6 APAC

6.1 APAC Fuel Cell Membranes Consumption by Countries

6.1.1 APAC Fuel Cell Membranes Consumption by Countries (2013-2018)

6.1.2 APAC Fuel Cell Membranes Value by Countries (2013-2018)

6.2 APAC Fuel Cell Membranes Consumption by Type

6.3 APAC Fuel Cell Membranes Consumption by Application

6.4 China

6.5 Japan

6.6 Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 Key Economic Indicators of Few APAC Countries

7 EUROPE

7.1 Europe Fuel Cell Membranes by Countries

7.1.1 Europe Fuel Cell Membranes Consumption by Countries (2013-2018)

7.1.2 Europe Fuel Cell Membranes Value by Countries (2013-2018)

7.2 Europe Fuel Cell Membranes Consumption by Type

7.3 Europe Fuel Cell Membranes Consumption by Application

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

7.9 Spain

7.10 Key Economic Indicators of Few Europe Countries

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Fuel Cell Membranes by Countries

8.1.1 Middle East & Africa Fuel Cell Membranes Consumption by Countries (2013-2018)

8.1.2 Middle East & Africa Fuel Cell Membranes Value by Countries (2013-2018)

8.2 Middle East & Africa Fuel Cell Membranes Consumption by Type

8.3 Middle East & Africa Fuel Cell Membranes Consumption by Application

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers and Impact

9.1.1 Growing Demand from Key Regions

9.1.2 Growing Demand from Key Applications and Potential Industries

9.2 Market Challenges and Impact

9.3 Market Trends

10 MARKETING, DISTRIBUTORS AND CUSTOMER

10.1 Sales Channel

10.1.1 Direct Marketing

10.1.2 Indirect Marketing

10.2 Fuel Cell Membranes Distributors

10.3 Fuel Cell Membranes Customer

11 GLOBAL FUEL CELL MEMBRANES MARKET FORECAST

11.1 Global Fuel Cell Membranes Consumption Forecast (2018-2023)

11.2 Global Fuel Cell Membranes Forecast by Regions

11.2.1 Global Fuel Cell Membranes Forecast by Regions (2018-2023)

11.2.2 Global Fuel Cell Membranes Value Forecast by Regions (2018-2023)

11.2.3 Americas Consumption Forecast

11.2.4 APAC Consumption Forecast

11.2.5 Europe Consumption Forecast

11.2.6 Middle East & Africa Consumption Forecast

11.3 Americas Forecast by Countries

11.3.1 United States Market Forecast

11.3.2 Canada Market Forecast

11.3.3 Mexico Market Forecast

11.3.4 Brazil Market Forecast

11.4 APAC Forecast by Countries

11.4.1 China Market Forecast

11.4.2 Japan Market Forecast

11.4.3 Korea Market Forecast

11.4.4 Southeast Asia Market Forecast

- 11.4.5 India Market Forecast
- 11.4.6 Australia Market Forecast
- 11.5 Europe Forecast by Countries
 - 11.5.1 Germany Market Forecast
 - 11.5.2 France Market Forecast
 - 11.5.3 UK Market Forecast
 - 11.5.4 Italy Market Forecast
 - 11.5.5 Russia Market Forecast
 - 11.5.6 Spain Market Forecast
- 11.6 Middle East & Africa Forecast by Countries
 - 11.6.1 Egypt Market Forecast
 - 11.6.2 South Africa Market Forecast
 - 11.6.3 Israel Market Forecast
 - 11.6.4 Turkey Market Forecast
 - 11.6.5 GCC Countries Market Forecast
- 11.7 Global Fuel Cell Membranes Forecast by Type
- 11.8 Global Fuel Cell Membranes Forecast by Application

12 KEY PLAYERS ANALYSIS

- 12.1 Dupont (Chemours)
 - 12.1.1 Company Details
 - 12.1.2 Fuel Cell Membranes Product Offered
 - 12.1.3 Dupont (Chemours) Fuel Cell Membranes Sales, Revenue, Price and Gross Margin (2016-2018)
 - 12.1.4 Main Business Overview
 - 12.1.5 Dupont (Chemours) News
- 12.2 3M
 - 12.2.1 Company Details
 - 12.2.2 Fuel Cell Membranes Product Offered
 - 12.2.3 3M Fuel Cell Membranes Sales, Revenue, Price and Gross Margin (2016-2018)
 - 12.2.4 Main Business Overview
 - 12.2.5 3M News
- 12.3 Gore
 - 12.3.1 Company Details
 - 12.3.2 Fuel Cell Membranes Product Offered
 - 12.3.3 Gore Fuel Cell Membranes Sales, Revenue, Price and Gross Margin (2016-2018)
 - 12.3.4 Main Business Overview

12.3.5 Gore News

12.4 Solvay

12.4.1 Company Details

12.4.2 Fuel Cell Membranes Product Offered

12.4.3 Solvay Fuel Cell Membranes Sales, Revenue, Price and Gross Margin (2016-2018)

12.4.4 Main Business Overview

12.4.5 Solvay News

12.5 BWT Group

12.5.1 Company Details

12.5.2 Fuel Cell Membranes Product Offered

12.5.3 BWT Group Fuel Cell Membranes Sales, Revenue, Price and Gross Margin (2016-2018)

12.5.4 Main Business Overview

12.5.5 BWT Group News

12.6 AKC

12.6.1 Company Details

12.6.2 Fuel Cell Membranes Product Offered

12.6.3 AKC Fuel Cell Membranes Sales, Revenue, Price and Gross Margin (2016-2018)

12.6.4 Main Business Overview

12.6.5 AKC News

12.7 BASF

12.7.1 Company Details

12.7.2 Fuel Cell Membranes Product Offered

12.7.3 BASF Fuel Cell Membranes Sales, Revenue, Price and Gross Margin (2016-2018)

12.7.4 Main Business Overview

12.7.5 BASF News

12.8 Oceanit

12.8.1 Company Details

12.8.2 Fuel Cell Membranes Product Offered

12.8.3 Oceanit Fuel Cell Membranes Sales, Revenue, Price and Gross Margin (2016-2018)

12.8.4 Main Business Overview

12.8.5 Oceanit News

12.9 Wuhan WUT

12.9.1 Company Details

12.9.2 Fuel Cell Membranes Product Offered

12.9.3 Wuhan WUT Fuel Cell Membranes Sales, Revenue, Price and Gross Margin (2016-2018)

12.9.4 Main Business Overview

12.9.5 Wuhan WUT News

12.10 Dongyue Group

12.10.1 Company Details

12.10.2 Fuel Cell Membranes Product Offered

12.10.3 Dongyue Group Fuel Cell Membranes Sales, Revenue, Price and Gross Margin (2016-2018)

12.10.4 Main Business Overview

12.10.5 Dongyue Group News

13 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES AND FIGURES

Figure Picture of Fuel Cell Membranes

Table Product Specifications of Fuel Cell Membranes

Figure Fuel Cell Membranes Report Years Considered

Figure Market Research Methodology

Figure Global Fuel Cell Membranes Consumption Growth Rate 2013-2023 (K sqm)

Figure Global Fuel Cell Membranes Value Growth Rate 2013-2023 (\$ Millions)

Table Fuel Cell Membranes Consumption CAGR by Region 2013-2023 (\$ Millions)

Figure Product Picture of Perfluorosulfonic Acid Membranes

Table Major Players of Perfluorosulfonic Acid Membranes

Figure Product Picture of Others (Composite PEM, etc.)

Table Major Players of Others (Composite PEM, etc.)

Table Global Consumption Sales by Type (2013-2018)

Table Global Fuel Cell Membranes Consumption Market Share by Type (2013-2018)

Figure Global Fuel Cell Membranes Consumption Market Share by Type (2013-2018)

Table Global Fuel Cell Membranes Revenue by Type (2013-2018) (\$ million)

Table Global Fuel Cell Membranes Value Market Share by Type (2013-2018) (\$ Millions)

Figure Global Fuel Cell Membranes Value Market Share by Type (2013-2018)

Table Global Fuel Cell Membranes Sale Price by Type (2013-2018)

Figure Fuel Cell Membranes Consumed in Stationary

Figure Global Fuel Cell Membranes Market: Stationary (2013-2018) (K sqm)

Figure Global Fuel Cell Membranes Market: Stationary (2013-2018) (\$ Millions)

Figure Global Stationary YoY Growth (\$ Millions)

Figure Fuel Cell Membranes Consumed in Transportation

Figure Global Fuel Cell Membranes Market: Transportation (2013-2018) (K sqm)

Figure Global Fuel Cell Membranes Market: Transportation (2013-2018) (\$ Millions)

Figure Global Transportation YoY Growth (\$ Millions)

Figure Fuel Cell Membranes Consumed in Portable

Figure Global Fuel Cell Membranes Market: Portable (2013-2018) (K sqm)

Figure Global Fuel Cell Membranes Market: Portable (2013-2018) (\$ Millions)

Figure Global Portable YoY Growth (\$ Millions)

Table Global Consumption Sales by Application (2013-2018)

Table Global Fuel Cell Membranes Consumption Market Share by Application (2013-2018)

Figure Global Fuel Cell Membranes Consumption Market Share by Application

(2013-2018)

Table Global Fuel Cell Membranes Value by Application (2013-2018)

Table Global Fuel Cell Membranes Value Market Share by Application (2013-2018)

Figure Global Fuel Cell Membranes Value Market Share by Application (2013-2018)

Table Global Fuel Cell Membranes Sale Price by Application (2013-2018)

Table Global Fuel Cell Membranes Sales by Players (2016-2018) (K sqm)

Table Global Fuel Cell Membranes Sales Market Share by Players (2016-2018)

Figure Global Fuel Cell Membranes Sales Market Share by Players in 2016

Figure Global Fuel Cell Membranes Sales Market Share by Players in 2017

Table Global Fuel Cell Membranes Revenue by Players (2016-2018) (\$ Millions)

Table Global Fuel Cell Membranes Revenue Market Share by Players (2016-2018)

Figure Global Fuel Cell Membranes Revenue Market Share by Players in 2016

Figure Global Fuel Cell Membranes Revenue Market Share by Players in 2017

Table Global Fuel Cell Membranes Sale Price by Players (2016-2018)

Figure Global Fuel Cell Membranes Sale Price by Players in 2017

Table Global Fuel Cell Membranes Manufacturing Base Distribution and Sales Area by Players

Table Players Fuel Cell Membranes Products Offered

Table Fuel Cell Membranes Concentration Ratio (CR3, CR5 and CR10) (2016-2018)

Table Global Fuel Cell Membranes Consumption by Regions 2013-2018 (K sqm)

Table Global Fuel Cell Membranes Consumption Market Share by Regions 2013-2018

Figure Global Fuel Cell Membranes Consumption Market Share by Regions 2013-2018

Table Global Fuel Cell Membranes Value by Regions 2013-2018 (\$ Millions)

Table Global Fuel Cell Membranes Value Market Share by Regions 2013-2018

Figure Global Fuel Cell Membranes Value Market Share by Regions 2013-2018

Figure Americas Fuel Cell Membranes Consumption 2013-2018 (K sqm)

Figure Americas Fuel Cell Membranes Value 2013-2018 (\$ Millions)

Figure APAC Fuel Cell Membranes Consumption 2013-2018 (K sqm)

Figure APAC Fuel Cell Membranes Value 2013-2018 (\$ Millions)

Figure Europe Fuel Cell Membranes Consumption 2013-2018 (K sqm)

Figure Europe Fuel Cell Membranes Value 2013-2018 (\$ Millions)

Figure Middle East & Africa Fuel Cell Membranes Consumption 2013-2018 (K sqm)

Figure Middle East & Africa Fuel Cell Membranes Value 2013-2018 (\$ Millions)

Table Americas Fuel Cell Membranes Consumption by Countries (2013-2018) (K sqm)

Table Americas Fuel Cell Membranes Consumption Market Share by Countries

(2013-2018)

Figure Americas Fuel Cell Membranes Consumption Market Share by Countries in 2017

Table Americas Fuel Cell Membranes Value by Countries (2013-2018) (\$ Millions)

Table Americas Fuel Cell Membranes Value Market Share by Countries (2013-2018)

Figure Americas Fuel Cell Membranes Value Market Share by Countries in 2017
Table Americas Fuel Cell Membranes Consumption by Type (2013-2018) (K sqm)
Table Americas Fuel Cell Membranes Consumption Market Share by Type (2013-2018)
Figure Americas Fuel Cell Membranes Consumption Market Share by Type in 2017
Table Americas Fuel Cell Membranes Consumption by Application (2013-2018) (K sqm)
Table Americas Fuel Cell Membranes Consumption Market Share by Application (2013-2018)
Figure Americas Fuel Cell Membranes Consumption Market Share by Application in 2017
Figure United States Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)
Figure United States Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)
Figure Canada Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)
Figure Canada Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)
Figure Mexico Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)
Figure Mexico Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)
Table APAC Fuel Cell Membranes Consumption by Countries (2013-2018) (K sqm)
Table APAC Fuel Cell Membranes Consumption Market Share by Countries (2013-2018)
Figure APAC Fuel Cell Membranes Consumption Market Share by Countries in 2017
Table APAC Fuel Cell Membranes Value by Countries (2013-2018) (\$ Millions)
Table APAC Fuel Cell Membranes Value Market Share by Countries (2013-2018)
Figure APAC Fuel Cell Membranes Value Market Share by Countries in 2017
Table APAC Fuel Cell Membranes Consumption by Type (2013-2018) (K sqm)
Table APAC Fuel Cell Membranes Consumption Market Share by Type (2013-2018)
Figure APAC Fuel Cell Membranes Consumption Market Share by Type in 2017
Table APAC Fuel Cell Membranes Consumption by Application (2013-2018) (K sqm)
Table APAC Fuel Cell Membranes Consumption Market Share by Application (2013-2018)
Figure APAC Fuel Cell Membranes Consumption Market Share by Application in 2017
Figure China Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)
Figure China Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)
Figure Japan Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)
Figure Japan Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)
Figure Korea Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)
Figure Korea Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)
Figure Southeast Asia Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)
Figure Southeast Asia Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)
Figure India Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)
Figure India Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)

Figure Australia Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)
Figure Australia Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)
Table Europe Fuel Cell Membranes Consumption by Countries (2013-2018) (K sqm)
Table Europe Fuel Cell Membranes Consumption Market Share by Countries (2013-2018)
Figure Europe Fuel Cell Membranes Consumption Market Share by Countries in 2017
Table Europe Fuel Cell Membranes Value by Countries (2013-2018) (\$ Millions)
Table Europe Fuel Cell Membranes Value Market Share by Countries (2013-2018)
Figure Europe Fuel Cell Membranes Value Market Share by Countries in 2017
Table Europe Fuel Cell Membranes Consumption by Type (2013-2018) (K sqm)
Table Europe Fuel Cell Membranes Consumption Market Share by Type (2013-2018)
Figure Europe Fuel Cell Membranes Consumption Market Share by Type in 2017
Table Europe Fuel Cell Membranes Consumption by Application (2013-2018) (K sqm)
Table Europe Fuel Cell Membranes Consumption Market Share by Application (2013-2018)
Figure Europe Fuel Cell Membranes Consumption Market Share by Application in 2017
Figure Germany Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)
Figure Germany Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)
Figure France Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)
Figure France Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)
Figure UK Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)
Figure UK Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)
Figure Italy Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)
Figure Italy Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)
Figure Russia Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)
Figure Russia Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)
Figure Spain Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)
Figure Spain Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)
Table Middle East & Africa Fuel Cell Membranes Consumption by Countries (2013-2018) (K sqm)
Table Middle East & Africa Fuel Cell Membranes Consumption Market Share by Countries (2013-2018)
Figure Middle East & Africa Fuel Cell Membranes Consumption Market Share by Countries in 2017
Table Middle East & Africa Fuel Cell Membranes Value by Countries (2013-2018) (\$ Millions)
Table Middle East & Africa Fuel Cell Membranes Value Market Share by Countries (2013-2018)
Figure Middle East & Africa Fuel Cell Membranes Value Market Share by Countries in

2017

Table Middle East & Africa Fuel Cell Membranes Consumption by Type (2013-2018) (K sqm)

Table Middle East & Africa Fuel Cell Membranes Consumption Market Share by Type (2013-2018)

Figure Middle East & Africa Fuel Cell Membranes Consumption Market Share by Type in 2017

Table Middle East & Africa Fuel Cell Membranes Consumption by Application (2013-2018) (K sqm)

Table Middle East & Africa Fuel Cell Membranes Consumption Market Share by Application (2013-2018)

Figure Middle East & Africa Fuel Cell Membranes Consumption Market Share by Application in 2017

Figure Egypt Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)

Figure Egypt Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)

Figure South Africa Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)

Figure South Africa Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)

Figure Israel Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)

Figure Israel Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)

Figure Turkey Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)

Figure Turkey Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)

Figure GCC Countries Fuel Cell Membranes Consumption Growth 2013-2018 (K sqm)

Figure GCC Countries Fuel Cell Membranes Value Growth 2013-2018 (\$ Millions)

Table Fuel Cell Membranes Distributors List

Table Fuel Cell Membranes Customer List

Figure Global Fuel Cell Membranes Consumption Growth Rate Forecast (2018-2023) (K sqm)

Figure Global Fuel Cell Membranes Value Growth Rate Forecast (2018-2023) (\$ Millions)

Table Global Fuel Cell Membranes Consumption Forecast by Countries (2018-2023) (K sqm)

Table Global Fuel Cell Membranes Consumption Market Forecast by Regions

Table Global Fuel Cell Membranes Value Forecast by Countries (2018-2023) (\$ Millions)

Table Global Fuel Cell Membranes Value Market Share Forecast by Regions

Figure Americas Fuel Cell Membranes Consumption 2018-2023 (K sqm)

Figure Americas Fuel Cell Membranes Value 2018-2023 (\$ Millions)

Figure APAC Fuel Cell Membranes Consumption 2018-2023 (K sqm)

Figure APAC Fuel Cell Membranes Value 2018-2023 (\$ Millions)

Figure Europe Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure Europe Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure Middle East & Africa Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure Middle East & Africa Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure United States Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure United States Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure Canada Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure Canada Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure Mexico Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure Mexico Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure Brazil Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure Brazil Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure China Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure China Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure Japan Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure Japan Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure Korea Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure Korea Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure Southeast Asia Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure Southeast Asia Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure India Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure India Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure Australia Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure Australia Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure Germany Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure Germany Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure France Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure France Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure UK Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure UK Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure Italy Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure Italy Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure Russia Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure Russia Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure Spain Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure Spain Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure Egypt Fuel Cell Membranes Consumption 2018-2023 (K sqm)
Figure Egypt Fuel Cell Membranes Value 2018-2023 (\$ Millions)
Figure South Africa Fuel Cell Membranes Consumption 2018-2023 (K sqm)

Figure South Africa Fuel Cell Membranes Value 2018-2023 (\$ Millions)

Figure Israel Fuel Cell Membranes Consumption 2018-2023 (K sqm)

Figure Israel Fuel Cell Membranes Value 2018-2023 (\$ Millions)

Figure Turkey Fuel Cell Membranes Consumption 2018-2023 (K sqm)

Figure Turkey Fuel Cell Membranes Value 2018-2023 (\$ Millions)

Figure GCC Countries Fuel Cell Membranes Consumption 2018-2023 (K sqm)

Figure GCC Countries Fuel Cell Membranes Value 2018-2023 (\$ Millions)

Table Global Fuel Cell Membranes Consumption Forecast by Type (2018-2023) (K sqm)

Table Global Fuel Cell Membranes Consumption Market Share Forecast by Type (2018-2023)

Table Global Fuel Cell Membranes Value Forecast by Type (2018-2023) (\$ Millions)

Table Global Fuel Cell Membranes Value Market Share Forecast by Type (2018-2023)

Table Global Fuel Cell Membranes Consumption Forecast by Application (2018-2023) (K sqm)

Table Global Fuel Cell Membranes Consumption Market Share Forecast by Application (2018-2023)

Table Global Fuel Cell Membranes Value Forecast by Application (2018-2023) (\$ Millions)

Table Global Fuel Cell Membranes Value Market Share Forecast by Application (2018-2023)

Table Dupont (Chemours) Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Dupont (Chemours) Fuel Cell Membranes Sales, Revenue, Price and Gross Margin (2016-2018)

Figure Dupont (Chemours) Fuel Cell Membranes Market Share (2016-2018)

Table 3M Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table 3M Fuel Cell Membranes Sales, Revenue, Price and Gross Margin (2016-2018)

Figure 3M Fuel Cell Membranes Market Share (2016-2018)

Table Gore Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Gore Fuel Cell Membranes Sales, Revenue, Price and Gross Margin (2016-2018)

Figure Gore Fuel Cell Membranes Market Share (2016-2018)

Table Solvay Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Solvay Fuel Cell Membranes Sales, Revenue, Price and Gross Margin (2016-2018)

Figure Solvay Fuel Cell Membranes Market Share (2016-2018)

Table BWT Group Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table BWT Group Fuel Cell Membranes Sales, Revenue, Price and Gross Margin

(2016-2018)

Figure BWT Group Fuel Cell Membranes Market Share (2016-2018)

Table AKC Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table AKC Fuel Cell Membranes Sales, Revenue, Price and Gross Margin (2016-2018)

Figure AKC Fuel Cell Membranes Market Share (2016-2018)

Table BASF Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table BASF Fuel Cell Membranes Sales, Revenue, Price and Gross Margin

(2016-2018)

Figure BASF Fuel Cell Membranes Market Share (2016-2018)

Table Oceanit Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Oceanit Fuel Cell Membranes Sales, Revenue, Price and Gross Margin

(2016-2018)

Figure Oceanit Fuel Cell Membranes Market Share (2016-2018)

Table Wuhan WUT Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Wuhan WUT Fuel Cell Membranes Sales, Revenue, Price and Gross Margin

(2016-2018)

Figure Wuhan WUT Fuel Cell Membranes Market Share (2016-2018)

Table Dongyue Group Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Dongyue Group Fuel Cell Membranes Sales, Revenue, Price and Gross Margin

(2016-2018)

Figure Dongyue Group Fuel Cell Membranes Market Share (2016-2018)

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