

Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Fuel Cell Membranes Market 2018, Forecast to 2023

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Abstracts

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.

SCOPE OF THE REPORT:

This report focuses on the Fuel Cell Membranes in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

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, 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.

The worldwide market for Fuel Cell Membranes is expected to grow at a CAGR of roughly 17.6% over the next five years, will reach 350 million US\$ in 2023, from 130 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Dupont (Chemours)

3M

Gore

Solvay

BWT Group

AKC

BASF

Oceanit

Wuhan WUT

Dongyue Group

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Perfluorosulfonic Acid Membranes

Others (Composite PEM, etc.)

Market Segment by Applications, can be divided into

Stationary

Transportation

Portable

There are 15 Chapters to deeply display the global Fuel Cell Membranes market.

Chapter 1, to describe Fuel Cell Membranes Introduction, product scope, market

Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Fuel Cell Membranes Market...

overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Fuel Cell Membranes, with sales, revenue, and price of Fuel Cell Membranes, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Fuel Cell Membranes, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Fuel Cell Membranes market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Fuel Cell Membranes sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

Contents

1 MARKET OVERVIEW

- 1.1 Fuel Cell Membranes Introduction
- 1.2 Market Analysis by Type
 - 1.2.1 Perfluorosulfonic Acid Membranes
 - 1.2.2 Others (Composite PEM, etc.)
- 1.3 Market Analysis by Applications
 - 1.3.1 Stationary
 - 1.3.2 Transportation
 - 1.3.3 Portable
- 1.4 Market Analysis by Regions
 - 1.4.1 North America (United States, Canada and Mexico)
 - 1.4.1.1 United States Market States and Outlook (2013-2023)
 - 1.4.1.2 Canada Market States and Outlook (2013-2023)
 - 1.4.1.3 Mexico Market States and Outlook (2013-2023)
 - 1.4.2 Europe (Germany, France, UK, Russia and Italy)
 - 1.4.2.1 Germany Market States and Outlook (2013-2023)
 - 1.4.2.2 France Market States and Outlook (2013-2023)
 - 1.4.2.3 UK Market States and Outlook (2013-2023)
 - 1.4.2.4 Russia Market States and Outlook (2013-2023)
 - 1.4.2.5 Italy Market States and Outlook (2013-2023)
 - 1.4.3 Asia-Pacific (China, Japan, Korea, India and Southeast Asia)
 - 1.4.3.1 China Market States and Outlook (2013-2023)
 - 1.4.3.2 Japan Market States and Outlook (2013-2023)
 - 1.4.3.3 Korea Market States and Outlook (2013-2023)
 - 1.4.3.4 India Market States and Outlook (2013-2023)
 - 1.4.3.5 Southeast Asia Market States and Outlook (2013-2023)
 - 1.4.4 South America, Middle East and Africa
 - 1.4.4.1 Brazil Market States and Outlook (2013-2023)
 - 1.4.4.2 Egypt Market States and Outlook (2013-2023)
 - 1.4.4.3 Saudi Arabia Market States and Outlook (2013-2023)
 - 1.4.4.4 South Africa Market States and Outlook (2013-2023)
 - 1.4.4.5 Nigeria Market States and Outlook (2013-2023)
- 1.5 Market Dynamics
 - 1.5.1 Market Opportunities
 - 1.5.2 Market Risk
 - 1.5.3 Market Driving Force

2 MANUFACTURERS PROFILES

2.1 Dupont (Chemours)

2.1.1 Business Overview

2.1.1.1 Dupont (Chemours) Description

2.1.1.2 Dupont (Chemours) Headquarter, Main Business and Finance Overview

2.1.2 Dupont (Chemours) Fuel Cell Membranes Product Introduction

2.1.2.1 Fuel Cell Membranes Production Bases, Sales Regions and Major

Competitors

2.1.2.2 Fuel Cell Membranes Product Information

2.1.3 Dupont (Chemours) Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.1.3.1 Dupont (Chemours) Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.1.3.2 Global Dupont (Chemours) Fuel Cell Membranes Market Share in 2017

2.2 3M

2.2.1 Business Overview

2.2.1.1 3M Description

2.2.1.2 3M Headquarter, Main Business and Finance Overview

2.2.2 3M Fuel Cell Membranes Product Introduction

2.2.2.1 Fuel Cell Membranes Production Bases, Sales Regions and Major

Competitors

2.2.2.2 Fuel Cell Membranes Product Information

2.2.3 3M Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.2.3.1 3M Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.2.3.2 Global 3M Fuel Cell Membranes Market Share in 2017

2.3 Gore

2.3.1 Business Overview

2.3.1.1 Gore Description

2.3.1.2 Gore Headquarter, Main Business and Finance Overview

2.3.2 Gore Fuel Cell Membranes Product Introduction

2.3.2.1 Fuel Cell Membranes Production Bases, Sales Regions and Major

Competitors

2.3.2.2 Fuel Cell Membranes Product Information

2.3.3 Gore Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.3.3.1 Gore Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.3.3.2 Global Gore Fuel Cell Membranes Market Share in 2017

2.4 Solvay

2.4.1 Business Overview

2.4.1.1 Solvay Description

2.4.1.2 Solvay Headquarter, Main Business and Finance Overview

2.4.2 Solvay Fuel Cell Membranes Product Introduction

2.4.2.1 Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

2.4.2.2 Fuel Cell Membranes Product Information

2.4.3 Solvay Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.4.3.1 Solvay Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.4.3.2 Global Solvay Fuel Cell Membranes Market Share in 2017

2.5 BWT Group

2.5.1 Business Overview

2.5.1.1 BWT Group Description

2.5.1.2 BWT Group Headquarter, Main Business and Finance Overview

2.5.2 BWT Group Fuel Cell Membranes Product Introduction

2.5.2.1 Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

2.5.2.2 Fuel Cell Membranes Product Information

2.5.3 BWT Group Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.5.3.1 BWT Group Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.5.3.2 Global BWT Group Fuel Cell Membranes Market Share in 2017

2.6 AKC

2.6.1 Business Overview

2.6.1.1 AKC Description

2.6.1.2 AKC Headquarter, Main Business and Finance Overview

2.6.2 AKC Fuel Cell Membranes Product Introduction

2.6.2.1 Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

2.6.2.2 Fuel Cell Membranes Product Information

2.6.3 AKC Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.6.3.1 AKC Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.6.3.2 Global AKC Fuel Cell Membranes Market Share in 2017

2.7 BASF

2.7.1 Business Overview

2.7.1.1 BASF Description

2.7.1.2 BASF Headquarter, Main Business and Finance Overview

2.7.2 BASF Fuel Cell Membranes Product Introduction

2.7.2.1 Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

2.7.2.2 Fuel Cell Membranes Product Information

2.7.3 BASF Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.7.3.1 BASF Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.7.3.2 Global BASF Fuel Cell Membranes Market Share in 2017

2.8 Oceanit

2.8.1 Business Overview

2.8.1.1 Oceanit Description

2.8.1.2 Oceanit Headquarter, Main Business and Finance Overview

2.8.2 Oceanit Fuel Cell Membranes Product Introduction

2.8.2.1 Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

2.8.2.2 Fuel Cell Membranes Product Information

2.8.3 Oceanit Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.8.3.1 Oceanit Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.8.3.2 Global Oceanit Fuel Cell Membranes Market Share in 2017

2.9 Wuhan WUT

2.9.1 Business Overview

2.9.1.1 Wuhan WUT Description

2.9.1.2 Wuhan WUT Headquarter, Main Business and Finance Overview

2.9.2 Wuhan WUT Fuel Cell Membranes Product Introduction

2.9.2.1 Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

2.9.2.2 Fuel Cell Membranes Product Information

2.9.3 Wuhan WUT Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.9.3.1 Wuhan WUT Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.9.3.2 Global Wuhan WUT Fuel Cell Membranes Market Share in 2017

2.10 Dongyue Group

2.10.1 Business Overview

2.10.1.1 Dongyue Group Description

2.10.1.2 Dongyue Group Headquarter, Main Business and Finance Overview

2.10.2 Dongyue Group Fuel Cell Membranes Product Introduction

2.10.2.1 Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

2.10.2.2 Fuel Cell Membranes Product Information

2.10.3 Dongyue Group Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.10.3.1 Dongyue Group Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.10.3.2 Global Dongyue Group Fuel Cell Membranes Market Share in 2017

3 GLOBAL FUEL CELL MEMBRANES MARKET COMPETITION, BY MANUFACTURER

3.1 Global Fuel Cell Membranes Sales and Market Share by Manufacturer (2016-2017)

3.2 Global Fuel Cell Membranes Revenue and Market Share by Manufacturer (2016-2017)

3.3 Global Fuel Cell Membranes Price by Manufacturer (2016-2017)

3.4 Market Concentration Rate

3.4.1 Top 3 Fuel Cell Membranes Manufacturer Market Share in 2017

3.4.2 Top 5 Fuel Cell Membranes Manufacturer Market Share in 2017

3.5 Market Competition Trend

4 GLOBAL FUEL CELL MEMBRANES MARKET ANALYSIS BY REGIONS

4.1 Global Fuel Cell Membranes Sales, Revenue and Market Share by Regions

4.1.1 Global Fuel Cell Membranes Sales by Regions (2013-2018)

4.1.2 Global Fuel Cell Membranes Revenue by Regions (2013-2018)

4.2 North America Fuel Cell Membranes Sales, Revenue and Growth Rate (2013-2018)

4.3 Europe Fuel Cell Membranes Sales, Revenue and Growth Rate (2013-2018)

4.4 Asia-Pacific Fuel Cell Membranes Sales, Revenue and Growth Rate (2013-2018)

4.5 South America Fuel Cell Membranes Sales, Revenue and Growth Rate (2013-2018)

4.6 Middle East and Africa Fuel Cell Membranes Sales, Revenue and Growth Rate

(2013-2018)

5 NORTH AMERICA FUEL CELL MEMBRANES BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

5.1 North America Fuel Cell Membranes Sales, Revenue and Market Share by Countries

- 5.1.1 North America Fuel Cell Membranes Sales by Countries (2013-2018)
- 5.1.2 North America Fuel Cell Membranes Revenue by Countries (2013-2018)
- 5.1.3 United States Fuel Cell Membranes Sales and Growth Rate (2013-2018)
- 5.1.4 Canada Fuel Cell Membranes Sales and Growth Rate (2013-2018)
- 5.1.5 Mexico Fuel Cell Membranes Sales and Growth Rate (2013-2018)

5.2 North America Fuel Cell Membranes Sales and Revenue (Value) by Manufacturers (2016-2017)

- 5.2.1 North America Fuel Cell Membranes Sales by Manufacturers (2016-2017)
- 5.2.2 North America Fuel Cell Membranes Revenue by Manufacturers (2016-2017)

5.3 North America Fuel Cell Membranes Sales, Revenue and Market Share by Type (2013-2018)

- 5.3.1 North America Fuel Cell Membranes Sales and Sales Share by Type (2013-2018)
- 5.3.2 North America Fuel Cell Membranes Revenue and Revenue Share by Type (2013-2018)

5.4 North America Fuel Cell Membranes Sales, Revenue and Market Share by Application (2013-2018)

- 5.4.1 North America Fuel Cell Membranes Sales and Sales Share by Application (2013-2018)
- 5.4.2 North America Fuel Cell Membranes Revenue and Revenue Share by Application (2013-2018)

6 EUROPE FUEL CELL MEMBRANES BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

6.1 Europe Fuel Cell Membranes Sales, Revenue and Market Share by Countries

- 6.1.1 Europe Fuel Cell Membranes Sales by Countries (2013-2018)
- 6.1.2 Europe Fuel Cell Membranes Revenue by Countries (2013-2018)
- 6.1.3 Germany Fuel Cell Membranes Sales and Growth Rate (2013-2018)
- 6.1.4 UK Fuel Cell Membranes Sales and Growth Rate (2013-2018)
- 6.1.5 France Fuel Cell Membranes Sales and Growth Rate (2013-2018)
- 6.1.6 Russia Fuel Cell Membranes Sales and Growth Rate (2013-2018)

- 6.1.7 Italy Fuel Cell Membranes Sales and Growth Rate (2013-2018)
- 6.2 Europe Fuel Cell Membranes Sales and Revenue (Value) by Manufacturers (2016-2017)
 - 6.2.1 Europe Fuel Cell Membranes Sales by Manufacturers (2016-2017)
 - 6.2.2 Europe Fuel Cell Membranes Revenue by Manufacturers (2016-2017)
- 6.3 Europe Fuel Cell Membranes Sales, Revenue and Market Share by Type (2013-2018)
 - 6.3.1 Europe Fuel Cell Membranes Sales and Sales Share by Type (2013-2018)
 - 6.3.2 Europe Fuel Cell Membranes Revenue and Revenue Share by Type (2013-2018)
- 6.4 Europe Fuel Cell Membranes Sales, Revenue and Market Share by Application (2013-2018)
 - 6.4.1 Europe Fuel Cell Membranes Sales and Sales Share by Application (2013-2018)
 - 6.4.2 Europe Fuel Cell Membranes Revenue and Revenue Share by Application (2013-2018)

7 ASIA-PACIFIC FUEL CELL MEMBRANES BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

- 7.1 Asia-Pacific Fuel Cell Membranes Sales, Revenue and Market Share by Countries
 - 7.1.1 Asia-Pacific Fuel Cell Membranes Sales by Countries (2013-2018)
 - 7.1.2 Asia-Pacific Fuel Cell Membranes Revenue by Countries (2013-2018)
 - 7.1.3 China Fuel Cell Membranes Sales and Growth Rate (2013-2018)
 - 7.1.4 Japan Fuel Cell Membranes Sales and Growth Rate (2013-2018)
 - 7.1.5 Korea Fuel Cell Membranes Sales and Growth Rate (2013-2018)
 - 7.1.6 India Fuel Cell Membranes Sales and Growth Rate (2013-2018)
 - 7.1.7 Southeast Asia Fuel Cell Membranes Sales and Growth Rate (2013-2018)
- 7.2 Asia-Pacific Fuel Cell Membranes Sales and Revenue (Value) by Manufacturers (2016-2017)
 - 7.2.1 Asia-Pacific Fuel Cell Membranes Sales by Manufacturers (2016-2017)
 - 7.2.2 Asia-Pacific Fuel Cell Membranes Revenue by Manufacturers (2016-2017)
- 7.3 Asia-Pacific Fuel Cell Membranes Sales, Revenue and Market Share by Type (2013-2018)
 - 7.3.1 Asia-Pacific Fuel Cell Membranes Sales and Sales Share by Type (2013-2018)
 - 7.3.2 Asia-Pacific Fuel Cell Membranes Revenue and Revenue Share by Type (2013-2018)
- 7.4 Asia-Pacific Fuel Cell Membranes Sales, Revenue and Market Share by Application (2013-2018)
 - 7.4.1 Asia-Pacific Fuel Cell Membranes Sales and Sales Share by Application

(2013-2018)

7.4.2 Asia-Pacific Fuel Cell Membranes Revenue and Revenue Share by Application
(2013-2018)

8 SOUTH AMERICA FUEL CELL MEMBRANES BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

8.1 South America Fuel Cell Membranes Sales, Revenue and Market Share by Countries

8.1.1 South America Fuel Cell Membranes Sales by Countries (2013-2018)

8.1.2 South America Fuel Cell Membranes Revenue by Countries (2013-2018)

8.1.3 Brazil Fuel Cell Membranes Sales and Growth Rate (2013-2018)

8.1.4 Argentina Fuel Cell Membranes Sales and Growth Rate (2013-2018)

8.1.5 Colombia Fuel Cell Membranes Sales and Growth Rate (2013-2018)

8.2 South America Fuel Cell Membranes Sales and Revenue (Value) by Manufacturers
(2016-2017)

8.2.1 South America Fuel Cell Membranes Sales by Manufacturers (2016-2017)

8.2.2 South America Fuel Cell Membranes Revenue by Manufacturers (2016-2017)

8.3 South America Fuel Cell Membranes Sales, Revenue and Market Share by Type
(2013-2018)

8.3.1 South America Fuel Cell Membranes Sales and Sales Share by Type
(2013-2018)

8.3.2 South America Fuel Cell Membranes Revenue and Revenue Share by Type
(2013-2018)

8.4 South America Fuel Cell Membranes Sales, Revenue and Market Share by
Application (2013-2018)

8.4.1 South America Fuel Cell Membranes Sales and Sales Share by Application
(2013-2018)

8.4.2 South America Fuel Cell Membranes Revenue and Revenue Share by
Application (2013-2018)

9 MIDDLE EAST AND AFRICA FUEL CELL MEMBRANES BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

9.1 Middle East and Africa Fuel Cell Membranes Sales, Revenue and Market Share by
Countries

9.1.1 Middle East and Africa Fuel Cell Membranes Sales by Countries (2013-2018)

9.1.2 Middle East and Africa Fuel Cell Membranes Revenue by Countries (2013-2018)

9.1.3 Saudi Arabia Fuel Cell Membranes Sales and Growth Rate (2013-2018)

- 9.1.4 UAE Fuel Cell Membranes Sales and Growth Rate (2013-2018)
- 9.1.5 Egypt Fuel Cell Membranes Sales and Growth Rate (2013-2018)
- 9.1.6 Nigeria Fuel Cell Membranes Sales and Growth Rate (2013-2018)
- 9.1.7 South Africa Fuel Cell Membranes Sales and Growth Rate (2013-2018)
- 9.2 Middle East and Africa Fuel Cell Membranes Sales and Revenue (Value) by Manufacturers (2016-2017)
 - 9.2.1 Middle East and Africa Fuel Cell Membranes Sales by Manufacturers (2016-2017)
 - 9.2.2 Middle East and Africa Fuel Cell Membranes Revenue by Manufacturers (2016-2017)
- 9.3 Middle East and Africa Fuel Cell Membranes Sales, Revenue and Market Share by Type (2013-2018)
 - 9.3.1 Middle East and Africa Fuel Cell Membranes Sales and Sales Share by Type (2013-2018)
 - 9.3.1 Middle East and Africa Fuel Cell Membranes Revenue and Revenue Share by Type (2013-2018)
- 9.4 Middle East and Africa Fuel Cell Membranes Sales, Revenue and Market Share by Application (2013-2018)
 - 9.4.1 Middle East and Africa Fuel Cell Membranes Sales and Sales Share by Application (2013-2018)
 - 9.4.2 Middle East and Africa Fuel Cell Membranes Revenue and Revenue Share by Application (2013-2018)

10 GLOBAL FUEL CELL MEMBRANES MARKET SEGMENT BY TYPE

- 10.1 Global Fuel Cell Membranes Sales, Revenue and Market Share by Type (2013-2018)
 - 10.1.1 Global Fuel Cell Membranes Sales and Market Share by Type (2013-2018)
 - 10.1.2 Global Fuel Cell Membranes Revenue and Market Share by Type (2013-2018)
- 10.2 Perfluorosulfonic Acid Membranes Sales Growth and Price
 - 10.2.1 Global Perfluorosulfonic Acid Membranes Sales Growth (2013-2018)
 - 10.2.2 Global Perfluorosulfonic Acid Membranes Price (2013-2018)
- 10.3 Others (Composite PEM, etc.) Sales Growth and Price
 - 10.3.1 Global Others (Composite PEM, etc.) Sales Growth (2013-2018)
 - 10.3.2 Global Others (Composite PEM, etc.) Price (2013-2018)

11 GLOBAL FUEL CELL MEMBRANES MARKET SEGMENT BY APPLICATION

- 11.1 Global Fuel Cell Membranes Sales Market Share by Application (2013-2018)

- 11.2 Stationary Sales Growth (2013-2018)
- 11.3 Transportation Sales Growth (2013-2018)
- 11.4 Portable Sales Growth (2013-2018)

12 FUEL CELL MEMBRANES MARKET FORECAST (2018-2023)

- 12.1 Global Fuel Cell Membranes Sales, Revenue and Growth Rate (2018-2023)
- 12.2 Fuel Cell Membranes Market Forecast by Regions (2018-2023)
 - 12.2.1 North America Fuel Cell Membranes Market Forecast (2018-2023)
 - 12.2.2 Europe Fuel Cell Membranes Market Forecast (2018-2023)
 - 12.2.3 Asia-Pacific Fuel Cell Membranes Market Forecast (2018-2023)
 - 12.2.4 South America Fuel Cell Membranes Market Forecast (2018-2023)
 - 12.2.5 Middle East and Africa Fuel Cell Membranes Market Forecast (2018-2023)
- 12.3 Fuel Cell Membranes Market Forecast by Type (2018-2023)
 - 12.3.1 Global Fuel Cell Membranes Sales Forecast by Type (2018-2023)
 - 12.3.2 Global Fuel Cell Membranes Market Share Forecast by Type (2018-2023)
- 12.4 Fuel Cell Membranes Market Forecast by Application (2018-2023)
 - 12.4.1 Global Fuel Cell Membranes Sales Forecast by Application (2018-2023)
 - 12.4.2 Global Fuel Cell Membranes Market Share Forecast by Application (2018-2023)

13 SALES CHANNEL, DISTRIBUTORS, TRADERS AND DEALERS

- 13.1 Sales Channel
 - 13.1.1 Direct Marketing
 - 13.1.2 Indirect Marketing
 - 13.1.3 Marketing Channel Future Trend
- 13.2 Distributors, Traders and Dealers

14 RESEARCH FINDINGS AND CONCLUSION

15 APPENDIX

- 15.1 Methodology
- 15.2 Data Source

List Of Tables

LIST OF TABLES AND FIGURES

Figure Fuel Cell Membranes Picture

Table Product Specifications of Fuel Cell Membranes

Figure Global Fuel Cell Membranes CAGR (%), Y-o-Y Growth (&) and Market Size, 2013-2023 (USD Million)

Figure Global Fuel Cell Membranes CAGR (%), Y-o-Y Growth (&) and Market Size, 2013-2023 (Sales)

Figure Global Sales Market Share of Fuel Cell Membranes by Types in 2017

Figure Perfluorosulfonic Acid Membranes Picture

Table Major Manufacturers of Perfluorosulfonic Acid Membranes

Figure Others (Composite PEM, etc.) Picture

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

Figure Fuel Cell Membranes Sales Market Share by Applications in 2017

Figure Stationary Picture

Figure Transportation Picture

Figure Portable Picture

Figure United States Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure Canada Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure Mexico Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure Germany Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure France Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure UK Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure Russia Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure Italy Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure China Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure Japan Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure Korea Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure India Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure Southeast Asia Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure Brazil Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure Egypt Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure Saudi Arabia Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Figure South Africa Fuel Cell Membranes Revenue (Value) and Growth Rate

(2013-2023)

Figure Nigeria Fuel Cell Membranes Revenue (Value) and Growth Rate (2013-2023)

Table Dupont (Chemours) Headquarter, Established, Main Business and Finance Overview (2017)

Table Dupont (Chemours) Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

Table Dupont (Chemours) Fuel Cell Membranes Product

Table Dupont (Chemours) Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Dupont (Chemours) Fuel Cell Membranes Sales Market Share in 2017

Figure Global Dupont (Chemours) Fuel Cell Membranes Revenue Market Share in 2017

Table 3M Headquarter, Established, Main Business and Finance Overview (2017)

Table 3M Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

Table 3M Fuel Cell Membranes Product

Table 3M Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global 3M Fuel Cell Membranes Sales Market Share in 2017

Figure Global 3M Fuel Cell Membranes Revenue Market Share in 2017

Table Gore Headquarter, Established, Main Business and Finance Overview (2017)

Table Gore Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

Table Gore Fuel Cell Membranes Product

Table Gore Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Gore Fuel Cell Membranes Sales Market Share in 2017

Figure Global Gore Fuel Cell Membranes Revenue Market Share in 2017

Table Solvay Headquarter, Established, Main Business and Finance Overview (2017)

Table Solvay Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

Table Solvay Fuel Cell Membranes Product

Table Solvay Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Solvay Fuel Cell Membranes Sales Market Share in 2017

Figure Global Solvay Fuel Cell Membranes Revenue Market Share in 2017

Table BWT Group Headquarter, Established, Main Business and Finance Overview (2017)

Table BWT Group Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

Table BWT Group Fuel Cell Membranes Product

Table BWT Group Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global BWT Group Fuel Cell Membranes Sales Market Share in 2017

Figure Global BWT Group Fuel Cell Membranes Revenue Market Share in 2017

Table AKC Headquarter, Established, Main Business and Finance Overview (2017)

Table AKC Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

Table AKC Fuel Cell Membranes Product

Table AKC Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global AKC Fuel Cell Membranes Sales Market Share in 2017

Figure Global AKC Fuel Cell Membranes Revenue Market Share in 2017

Table BASF Headquarter, Established, Main Business and Finance Overview (2017)

Table BASF Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

Table BASF Fuel Cell Membranes Product

Table BASF Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global BASF Fuel Cell Membranes Sales Market Share in 2017

Figure Global BASF Fuel Cell Membranes Revenue Market Share in 2017

Table Oceanit Headquarter, Established, Main Business and Finance Overview (2017)

Table Oceanit Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

Table Oceanit Fuel Cell Membranes Product

Table Oceanit Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Oceanit Fuel Cell Membranes Sales Market Share in 2017

Figure Global Oceanit Fuel Cell Membranes Revenue Market Share in 2017

Table Wuhan WUT Headquarter, Established, Main Business and Finance Overview (2017)

Table Wuhan WUT Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

Table Wuhan WUT Fuel Cell Membranes Product

Table Wuhan WUT Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Wuhan WUT Fuel Cell Membranes Sales Market Share in 2017

Figure Global Wuhan WUT Fuel Cell Membranes Revenue Market Share in 2017

Table Dongyue Group Headquarter, Established, Main Business and Finance Overview

(2017)

Table Dongyue Group Fuel Cell Membranes Production Bases, Sales Regions and Major Competitors

Table Dongyue Group Fuel Cell Membranes Product

Table Dongyue Group Fuel Cell Membranes Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Dongyue Group Fuel Cell Membranes Sales Market Share in 2017

Figure Global Dongyue Group Fuel Cell Membranes Revenue Market Share in 2017

Table Global Fuel Cell Membranes Sales by Manufacturer (2016-2017)

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

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

Table Global Fuel Cell Membranes Revenue by Manufacturer (2016-2017)

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

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

Table Global Fuel Cell Membranes Price by Manufacturer (2016-2017)

Figure Top 3 Fuel Cell Membranes Manufacturer (Revenue) Market Share in 2017

Figure Top 6 Fuel Cell Membranes Manufacturer (Revenue) Market Share in 2017

Figure Global Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Figure Global Fuel Cell Membranes Revenue and Growth Rate (2013-2018)

Table Global Fuel Cell Membranes Sales by Regions (2013-2018)

Table Global Fuel Cell Membranes Sales Market Share by Regions (2013-2018)

Table Global Fuel Cell Membranes Revenue by Regions (2013-2018)

Figure Global Fuel Cell Membranes Revenue Market Share by Regions in 2013

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

Figure North America Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Figure North America Fuel Cell Membranes Revenue and Growth Rate (2013-2018)

Figure Europe Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Figure Europe Fuel Cell Membranes Revenue and Growth Rate (2013-2018)

Figure Asia-Pacific Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Figure Asia-Pacific Fuel Cell Membranes Revenue and Growth Rate (2013-2018)

Figure South America Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Figure South America Fuel Cell Membranes Revenue and Growth Rate (2013-2018)

Figure Middle East and Africa Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Figure Middle East and Africa Fuel Cell Membranes Revenue and Growth Rate (2013-2018)

Figure North America Fuel Cell Membranes Revenue and Growth Rate (2013-2018)

Table North America Fuel Cell Membranes Sales by Countries (2013-2018)

Table North America Fuel Cell Membranes Sales Market Share by Countries

(2013-2018)

Figure North America Fuel Cell Membranes Sales Market Share by Countries in 2013

Figure North America Fuel Cell Membranes Sales Market Share by Countries in 2017

Table North America Fuel Cell Membranes Revenue by Countries (2013-2018)

Table North America Fuel Cell Membranes Revenue Market Share by Countries (2013-2018)

Figure North America Fuel Cell Membranes Revenue Market Share by Countries in 2013

Figure North America Fuel Cell Membranes Revenue Market Share by Countries in 2017

Figure United States Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Figure Canada Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Figure Mexico Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Table North America Fuel Cell Membranes Sales by Manufacturer (2016-2017)

Figure North America Fuel Cell Membranes Sales Market Share by Manufacturer in 2016

Figure North America Fuel Cell Membranes Sales Market Share by Manufacturer in 2017

Table North America Fuel Cell Membranes Revenue by Manufacturer (2016-2017)

Figure North America Fuel Cell Membranes Revenue Market Share by Manufacturer in 2016

Figure North America Fuel Cell Membranes Revenue Market Share by Manufacturer in 2017

Table North America Fuel Cell Membranes Sales by Type (2013-2018)

Table North America Fuel Cell Membranes Sales Share by Type (2013-2018)

Table North America Fuel Cell Membranes Revenue by Type (2013-2018)

Table North America Fuel Cell Membranes Revenue Share by Type (2013-2018)

Table North America Fuel Cell Membranes Sales by Application (2013-2018)

Table North America Fuel Cell Membranes Sales Share by Application (2013-2018)

Table North America Fuel Cell Membranes Revenue by Application (2013-2018)

Table North America Fuel Cell Membranes Revenue Share by Application (2013-2018)

Figure Europe Fuel Cell Membranes Revenue and Growth Rate (2013-2018)

Table Europe Fuel Cell Membranes Sales by Countries (2013-2018)

Table Europe Fuel Cell Membranes Sales Market Share by Countries (2013-2018)

Table Europe Fuel Cell Membranes Revenue by Countries (2013-2018)

Figure Europe Fuel Cell Membranes Revenue Market Share by Countries in 2016

Figure Europe Fuel Cell Membranes Revenue Market Share by Countries in 2017

Figure Germany Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Figure UK Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Figure France Fuel Cell Membranes Sales and Growth Rate (2013-2018)
Figure Russia Fuel Cell Membranes Sales and Growth Rate (2013-2018)
Figure Italy Fuel Cell Membranes Sales and Growth Rate (2013-2018)
Table Europe Fuel Cell Membranes Sales by Manufacturer (2016-2017)
Figure Europe Fuel Cell Membranes Sales Market Share by Manufacturer in 2016
Figure Europe Fuel Cell Membranes Sales Market Share by Manufacturer in 2017
Table Europe Fuel Cell Membranes Revenue by Manufacturer (2016-2017)
Figure Europe Fuel Cell Membranes Revenue Market Share by Manufacturer in 2016
Figure Europe Fuel Cell Membranes Revenue Market Share by Manufacturer in 2017
Table Europe Fuel Cell Membranes Sales by Type (2013-2018)
Table Europe Fuel Cell Membranes Sales Share by Type (2013-2018)
Table Europe Fuel Cell Membranes Revenue by Type (2013-2018)
Table Europe Fuel Cell Membranes Revenue Share by Type (2013-2018)
Table Europe Fuel Cell Membranes Sales by Application (2013-2018)
Table Europe Fuel Cell Membranes Sales Share by Application (2013-2018)
Table Europe Fuel Cell Membranes Revenue by Application (2013-2018)
Table Europe Fuel Cell Membranes Revenue Share by Application (2013-2018)
Figure Asia-Pacific Fuel Cell Membranes Revenue and Growth Rate (2013-2018)
Table Asia-Pacific Fuel Cell Membranes Sales by Countries (2013-2018)
Table Asia-Pacific Fuel Cell Membranes Sales Market Share by Countries (2013-2018)
Figure Asia-Pacific Fuel Cell Membranes Sales Market Share by Countries 2017
Table Asia-Pacific Fuel Cell Membranes Revenue by Countries (2013-2018)
Figure Asia-Pacific Fuel Cell Membranes Revenue Market Share by Countries 2017
Figure China Fuel Cell Membranes Sales and Growth Rate (2013-2018)
Figure Japan Fuel Cell Membranes Sales and Growth Rate (2013-2018)
Figure Korea Fuel Cell Membranes Sales and Growth Rate (2013-2018)
Figure India Fuel Cell Membranes Sales and Growth Rate (2013-2018)
Figure Southeast Asia Fuel Cell Membranes Sales and Growth Rate (2013-2018)
Table Asia-Pacific Fuel Cell Membranes Sales by Manufacturer (2016-2017)
Figure Asia-Pacific Fuel Cell Membranes Sales Market Share by Manufacturer in 2016
Figure Asia-Pacific Fuel Cell Membranes Sales Market Share by Manufacturer in 2017
Table Asia-Pacific Fuel Cell Membranes Revenue by Manufacturer (2016-2017)
Figure Asia-Pacific Fuel Cell Membranes Revenue Market Share by Manufacturer in 2016
Figure Asia-Pacific Fuel Cell Membranes Revenue Market Share by Manufacturer in 2017
Table Asia-Pacific Fuel Cell Membranes Sales by Type (2013-2018)
Table Asia-Pacific Fuel Cell Membranes Sales Share by Type (2013-2018)
Table Asia-Pacific Fuel Cell Membranes Revenue by Type (2013-2018)

Table Asia-Pacific Fuel Cell Membranes Revenue Share by Type (2013-2018)
Table Asia-Pacific Fuel Cell Membranes Sales by Application (2013-2018)
Table Asia-Pacific Fuel Cell Membranes Sales Share by Application (2013-2018)
Table Asia-Pacific Fuel Cell Membranes Revenue by Application (2013-2018)
Table Asia-Pacific Fuel Cell Membranes Revenue Share by Application (2013-2018)
Figure South America Fuel Cell Membranes Revenue and Growth Rate (2013-2018)
Table South America Fuel Cell Membranes Sales by Countries (2013-2018)
Table South America Fuel Cell Membranes Sales Market Share by Countries (2013-2018)
Figure South America Fuel Cell Membranes Sales Market Share by Countries in 2017
Table South America Fuel Cell Membranes Revenue by Countries (2013-2018)
Table South America Fuel Cell Membranes Revenue Market Share by Countries (2013-2018)
Figure South America Fuel Cell Membranes Revenue Market Share by Countries in 2017
Figure Brazil Fuel Cell Membranes Sales and Growth Rate (2013-2018)
Figure Argentina Fuel Cell Membranes Sales and Growth Rate (2013-2018)
Figure Colombia Fuel Cell Membranes Sales and Growth Rate (2013-2018)
Table South America Fuel Cell Membranes Sales by Manufacturer (2016-2017)
Figure South America Fuel Cell Membranes Sales Market Share by Manufacturer in 2016
Figure South America Fuel Cell Membranes Sales Market Share by Manufacturer in 2017
Table South America Fuel Cell Membranes Revenue by Manufacturer (2016-2017)
Figure South America Fuel Cell Membranes Revenue Market Share by Manufacturer in 2016
Figure South America Fuel Cell Membranes Revenue Market Share by Manufacturer in 2017
Table South America Fuel Cell Membranes Sales by Type (2013-2018)
Table South America Fuel Cell Membranes Sales Share by Type (2013-2018)
Table South America Fuel Cell Membranes Revenue by Type (2013-2018)
Table South America Fuel Cell Membranes Revenue Share by Type (2013-2018)
Table South America Fuel Cell Membranes Sales by Application (2013-2018)
Table South America Fuel Cell Membranes Sales Share by Application (2013-2018)
Table South America Fuel Cell Membranes Revenue by Application (2013-2018)
Table South America Fuel Cell Membranes Revenue Share by Application (2013-2018)
Figure Middle East and Africa Fuel Cell Membranes Revenue and Growth Rate (2013-2018)
Table Middle East and Africa Fuel Cell Membranes Sales by Countries (2013-2018)

Table Middle East and Africa Fuel Cell Membranes Sales Market Share by Countries (2013-2018)

Figure Middle East and Africa Fuel Cell Membranes Sales Market Share by Countries in 2017

Table Middle East and Africa Fuel Cell Membranes Revenue by Countries (2013-2018)

Table Middle East and Africa Fuel Cell Membranes Revenue Market Share by Countries (2013-2018)

Figure Middle East and Africa Fuel Cell Membranes Revenue Market Share by Countries in 2013

Figure Middle East and Africa Fuel Cell Membranes Revenue Market Share by Countries in 2017

Figure Saudi Arabia Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Figure UAE Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Figure Egypt Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Figure Nigeria Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Figure South Africa Fuel Cell Membranes Sales and Growth Rate (2013-2018)

Table Middle East and Africa Fuel Cell Membranes Sales by Manufacturer (2016-2017)

Figure Middle East and Africa Fuel Cell Membranes Sales Market Share by Manufacturer in 2016

Figure Middle East and Africa Fuel Cell Membranes Sales Market Share by Manufacturer in 2017

Table Middle East and Africa Fuel Cell Membranes Revenue by Manufacturer (2016-2017)

Figure Middle East and Africa Fuel Cell Membranes Revenue Market Share by Manufacturer in 2016

Figure Middle East and Africa Fuel Cell Membranes Revenue Market Share by Manufacturer in 2017

Table Middle East and Africa Fuel Cell Membranes Sales by Type (2013-2018)

Table Middle East and Africa Fuel Cell Membranes Sales Share by Type (2013-2018)

Table Middle East and Africa Fuel Cell Membranes Revenue by Type (2013-2018)

Table Middle East and Africa Fuel Cell Membranes Revenue Share by Type (2013-2018)

Table Middle East and Africa Fuel Cell Membranes Sales by Application (2013-2018)

Table Middle East and Africa Fuel Cell Membranes Sales Share by Application (2013-2018)

Table Middle East and Africa Fuel Cell Membranes Revenue by Application (2013-2018)

Table Middle East and Africa Fuel Cell Membranes Revenue Share by Application (2013-2018)

Table Global Fuel Cell Membranes Sales by Type (2013-2018)
Table Global Fuel Cell Membranes Sales Share by Type (2013-2018)
Table Global Fuel Cell Membranes Revenue by Type (2013-2018)
Table Global Fuel Cell Membranes Revenue Share by Type (2013-2018)
Figure Global Perfluorosulfonic Acid Membranes Sales Growth (2013-2018)
Figure Global Perfluorosulfonic Acid Membranes Price (2013-2018)
Figure Global Others (Composite PEM, etc.) Sales Growth (2013-2018)
Figure Global Others (Composite PEM, etc.) Price (2013-2018)
Table Global Fuel Cell Membranes Sales by Application (2013-2018)
Table Global Fuel Cell Membranes Sales Share by Application (2013-2018)
Figure Global Stationary Sales Growth (2013-2018)
Figure Global Transportation Sales Growth (2013-2018)
Figure Global Portable Sales Growth (2013-2018)
Figure Global Fuel Cell Membranes Sales, Revenue and Growth Rate (2018-2023)
Table Global Fuel Cell Membranes Sales Forecast by Regions (2018-2023)
Table Global Fuel Cell Membranes Market Share Forecast by Regions (2018-2023)
Figure North America Sales Fuel Cell Membranes Market Forecast (2018-2023)
Figure Europe Sales Fuel Cell Membranes Market Forecast (2018-2023)
Figure Asia-Pacific Sales Fuel Cell Membranes Market Forecast (2018-2023)
Figure South America Sales Fuel Cell Membranes Market Forecast (2018-2023)
Figure Middle East and Africa Sales Fuel Cell Membranes Market Forecast (2018-2023)
Table Global Fuel Cell Membranes Sales Forecast by Type (2018-2023)
Table Global Fuel Cell Membranes Market Share Forecast by Type (2018-2023)
Table Global Fuel Cell Membranes Sales Forecast by Application (2018-2023)
Table Global Fuel Cell Membranes Market Share Forecast by Application (2018-2023)
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