

Fuel Cell Gas Diffusion Layer (GDL) Industry Research Report 2023

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Abstracts

Highlights

The global Fuel Cell Gas Diffusion Layer (GDL) market is projected to reach US\$ million by 2029 from an estimated US\$ million in 2022, at a CAGR of % during 2023 and 2029.

North American market for Fuel Cell Gas Diffusion Layer (GDL) is estimated to increase from \$ million in 2022 to reach \$ million by 2029, at a CAGR of % during the forecast period of 2023 through 2029.

Asia-Pacific market for Fuel Cell Gas Diffusion Layer (GDL) is estimated to increase from \$ million in 2022 to reach \$ million by 2029, at a CAGR of % during the forecast period of 2023 through 2029.

The major global companies of Fuel Cell Gas Diffusion Layer (GDL) include Freudenberg, AvCarb, Teijin, Mitsubishi Chemical Corporation, Fuel Cells Etc, Jntg Co. and Cetech, etc. In 2022, the world's top three vendors accounted for approximately % of the revenue.

The global market for Fuel Cell Gas Diffusion Layer (GDL) in Hydrogen-oxygen Fuel Cell is estimated to increase from \$ million in 2022 to \$ million by 2029, at a CAGR of % during the forecast period of 2023 through 2029.

Considering the economic change due to COVID-19 and Russia-Ukraine War Influence, Carbon Paper Type, which accounted for % of the global market of Fuel Cell Gas Diffusion Layer (GDL) in 2022, is expected to reach million US\$ by 2029, growing at a revised CAGR of % from 2023 to 2029.

Report Scope

This report aims to provide a comprehensive presentation of the global market for Fuel Cell Gas Diffusion Layer (GDL), with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Fuel Cell Gas Diffusion Layer (GDL).

The Fuel Cell Gas Diffusion Layer (GDL) market size, estimations, and forecasts are provided in terms of output/shipments (K Sq.m) and revenue (\$ millions), considering 2022 as the base year, with history and forecast data for the period from 2018 to 2029. This report segments the global Fuel Cell Gas Diffusion Layer (GDL) market comprehensively. Regional market sizes, concerning products by types, by application, and by players, are also provided. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

The report will help the Fuel Cell Gas Diffusion Layer (GDL) manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, production, and average price for the overall market and the sub-segments across the different segments, by company, product type, application, and regions.

Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2018-2023. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

Freudenberg

AvCarb

Teijin

Mitsubishi Chemical Corporation

Fuel Cells Etc

Jntg Co.

Cetech

Product Type Insights

Global markets are presented by Fuel Cell Gas Diffusion Layer (GDL) type, along with growth forecasts through 2029. Estimates on production and value are based on the price in the supply chain at which the Fuel Cell Gas Diffusion Layer (GDL) are procured by the manufacturers.

This report has studied every segment and provided the market size using historical data. They have also talked about the growth opportunities that the segment may pose in the future. This study bestows production and revenue data by type, and during the historical period (2018-2023) and forecast period (2024-2029).

Fuel Cell Gas Diffusion Layer (GDL) segment by Type

Carbon Paper Type

Carbon Cloth Type

Application Insights

This report has provided the market size (production and revenue data) by application, during the historical period (2018-2023) and forecast period (2024-2029).

This report also outlines the market trends of each segment and consumer behaviors impacting the Fuel Cell Gas Diffusion Layer (GDL) market and what implications these may have on the industry's future. This report can help to understand the relevant market and consumer trends that are driving the Fuel Cell Gas Diffusion Layer (GDL) market.

Fuel Cell Gas Diffusion Layer (GDL) segment by Application

Hydrogen-oxygen Fuel Cell

Hydrocarbon Fuels Cell

Others

Regional Outlook

This section of the report provides key insights regarding various regions and the key players operating in each region. Economic, social, environmental, technological, and political factors have been taken into consideration while assessing the growth of the particular region/country. The readers will also get their hands on the revenue and sales data of each region and country for the period 2018-2029.

The market has been segmented into various major geographies, including North America, Europe, Asia-Pacific, South America. Detailed analysis of major countries such as the USA, Germany, the U.K., Italy, France, China, Japan, South Korea, Southeast Asia, and India will be covered within the regional segment. For market estimates, data are going to be provided for 2022 because of the base year, with estimates for 2023 and forecast value for 2029.

North America

United States

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

COVID-19 and Russia-Ukraine War Influence Analysis

The readers in the section will understand how the Fuel Cell Gas Diffusion Layer (GDL) market scenario changed across the globe during the pandemic, post-pandemic and Russia-Ukraine War. The study is done keeping in view the changes in aspects such as demand, consumption, transportation, consumer behavior, supply chain management, export and import, and production. The industry experts have also highlighted the key factors that will help create opportunities for players and stabilize the overall industry in the years to come.

Reasons to Buy This Report

This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Fuel Cell Gas Diffusion Layer (GDL) market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

This report will help stakeholders to understand the global industry status and trends of Fuel Cell Gas Diffusion Layer (GDL) and provides them with information on key market drivers, restraints, challenges, and opportunities.

This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

This report stays updated with novel technology integration, features, and the latest developments in the market

This report helps stakeholders to understand the COVID-19 and Russia-Ukraine War Influence on the Fuel Cell Gas Diffusion Layer (GDL) industry.

This report helps stakeholders to gain insights into which regions to target globally

This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Fuel Cell Gas Diffusion Layer (GDL).

This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Core Chapters

Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Detailed analysis of Fuel Cell Gas Diffusion Layer (GDL) manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 5: Production/output, value of Fuel Cell Gas Diffusion Layer (GDL) by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6: Consumption of Fuel Cell Gas Diffusion Layer (GDL) in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11: The main points and conclusions of the report.

Contents

1 PREFACE

- 1.1 Scope of Report
- 1.2 Reasons for Doing This Study
- 1.3 Research Methodology
- 1.4 Research Process
- 1.5 Data Source
 - 1.5.1 Secondary Sources
 - 1.5.2 Primary Sources

2 MARKET OVERVIEW

- 2.1 Product Definition
- 2.2 Fuel Cell Gas Diffusion Layer (GDL) by Type
 - 2.2.1 Market Value Comparison by Type (2018 VS 2022 VS 2029) & (US\$ Million)
 - 1.2.2 Carbon Paper Type
 - 1.2.3 Carbon Cloth Type
- 2.3 Fuel Cell Gas Diffusion Layer (GDL) by Application
 - 2.3.1 Market Value Comparison by Application (2018 VS 2022 VS 2029) & (US\$ Million)
 - 2.3.2 Hydrogen-oxygen Fuel Cell
 - 2.3.3 Hydrocarbon Fuels Cell
 - 2.3.4 Others
- 2.4 Global Market Growth Prospects
 - 2.4.1 Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Estimates and Forecasts (2018-2029)
 - 2.4.2 Global Fuel Cell Gas Diffusion Layer (GDL) Production Capacity Estimates and Forecasts (2018-2029)
 - 2.4.3 Global Fuel Cell Gas Diffusion Layer (GDL) Production Estimates and Forecasts (2018-2029)
 - 2.4.4 Global Fuel Cell Gas Diffusion Layer (GDL) Market Average Price (2018-2029)

3 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS

- 3.1 Global Fuel Cell Gas Diffusion Layer (GDL) Production by Manufacturers (2018-2023)
- 3.2 Global Fuel Cell Gas Diffusion Layer (GDL) Production Value by Manufacturers

(2018-2023)

3.3 Global Fuel Cell Gas Diffusion Layer (GDL) Average Price by Manufacturers

(2018-2023)

3.4 Global Fuel Cell Gas Diffusion Layer (GDL) Industry Manufacturers Ranking, 2021 VS 2022 VS 2023

3.5 Global Fuel Cell Gas Diffusion Layer (GDL) Key Manufacturers, Manufacturing Sites & Headquarters

3.6 Global Fuel Cell Gas Diffusion Layer (GDL) Manufacturers, Product Type & Application

3.7 Global Fuel Cell Gas Diffusion Layer (GDL) Manufacturers, Date of Enter into This Industry

3.8 Global Fuel Cell Gas Diffusion Layer (GDL) Market CR5 and HHI

3.9 Global Manufacturers Mergers & Acquisition

4 MANUFACTURERS PROFILED

4.1 Freudenberg

4.1.1 Freudenberg Fuel Cell Gas Diffusion Layer (GDL) Company Information

4.1.2 Freudenberg Fuel Cell Gas Diffusion Layer (GDL) Business Overview

4.1.3 Freudenberg Fuel Cell Gas Diffusion Layer (GDL) Production, Value and Gross Margin (2018-2023)

4.1.4 Freudenberg Product Portfolio

4.1.5 Freudenberg Recent Developments

4.2 AvCarb

4.2.1 AvCarb Fuel Cell Gas Diffusion Layer (GDL) Company Information

4.2.2 AvCarb Fuel Cell Gas Diffusion Layer (GDL) Business Overview

4.2.3 AvCarb Fuel Cell Gas Diffusion Layer (GDL) Production, Value and Gross Margin (2018-2023)

4.2.4 AvCarb Product Portfolio

4.2.5 AvCarb Recent Developments

4.3 Teijin

4.3.1 Teijin Fuel Cell Gas Diffusion Layer (GDL) Company Information

4.3.2 Teijin Fuel Cell Gas Diffusion Layer (GDL) Business Overview

4.3.3 Teijin Fuel Cell Gas Diffusion Layer (GDL) Production, Value and Gross Margin (2018-2023)

4.3.4 Teijin Product Portfolio

4.3.5 Teijin Recent Developments

4.4 Mitsubishi Chemical Corporation

4.4.1 Mitsubishi Chemical Corporation Fuel Cell Gas Diffusion Layer (GDL) Company

Information

4.4.2 Mitsubishi Chemical Corporation Fuel Cell Gas Diffusion Layer (GDL) Business Overview

4.4.3 Mitsubishi Chemical Corporation Fuel Cell Gas Diffusion Layer (GDL) Production, Value and Gross Margin (2018-2023)

4.4.4 Mitsubishi Chemical Corporation Product Portfolio

4.4.5 Mitsubishi Chemical Corporation Recent Developments

4.5 Fuel Cells Etc

4.5.1 Fuel Cells Etc Fuel Cell Gas Diffusion Layer (GDL) Company Information

4.5.2 Fuel Cells Etc Fuel Cell Gas Diffusion Layer (GDL) Business Overview

4.5.3 Fuel Cells Etc Fuel Cell Gas Diffusion Layer (GDL) Production, Value and Gross Margin (2018-2023)

4.5.4 Fuel Cells Etc Product Portfolio

4.5.5 Fuel Cells Etc Recent Developments

4.6 Jntg Co.

4.6.1 Jntg Co. Fuel Cell Gas Diffusion Layer (GDL) Company Information

4.6.2 Jntg Co. Fuel Cell Gas Diffusion Layer (GDL) Business Overview

4.6.3 Jntg Co. Fuel Cell Gas Diffusion Layer (GDL) Production, Value and Gross Margin (2018-2023)

4.6.4 Jntg Co. Product Portfolio

4.6.5 Jntg Co. Recent Developments

4.7 Cetech

4.7.1 Cetech Fuel Cell Gas Diffusion Layer (GDL) Company Information

4.7.2 Cetech Fuel Cell Gas Diffusion Layer (GDL) Business Overview

4.7.3 Cetech Fuel Cell Gas Diffusion Layer (GDL) Production, Value and Gross Margin (2018-2023)

4.7.4 Cetech Product Portfolio

4.7.5 Cetech Recent Developments

5 GLOBAL FUEL CELL GAS DIFFUSION LAYER (GDL) PRODUCTION BY REGION

5.1 Global Fuel Cell Gas Diffusion Layer (GDL) Production Estimates and Forecasts by Region: 2018 VS 2022 VS 2029

5.2 Global Fuel Cell Gas Diffusion Layer (GDL) Production by Region: 2018-2029

5.2.1 Global Fuel Cell Gas Diffusion Layer (GDL) Production by Region: 2018-2023

5.2.2 Global Fuel Cell Gas Diffusion Layer (GDL) Production Forecast by Region (2024-2029)

5.3 Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Estimates and Forecasts by Region: 2018 VS 2022 VS 2029

5.4 Global Fuel Cell Gas Diffusion Layer (GDL) Production Value by Region: 2018-2029

5.4.1 Global Fuel Cell Gas Diffusion Layer (GDL) Production Value by Region: 2018-2023

5.4.2 Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Forecast by Region (2024-2029)

5.5 Global Fuel Cell Gas Diffusion Layer (GDL) Market Price Analysis by Region (2018-2023)

5.6 Global Fuel Cell Gas Diffusion Layer (GDL) Production and Value, YOY Growth

5.6.1 North America Fuel Cell Gas Diffusion Layer (GDL) Production Value Estimates and Forecasts (2018-2029)

5.6.2 Europe Fuel Cell Gas Diffusion Layer (GDL) Production Value Estimates and Forecasts (2018-2029)

5.6.3 China Fuel Cell Gas Diffusion Layer (GDL) Production Value Estimates and Forecasts (2018-2029)

5.6.4 Japan Fuel Cell Gas Diffusion Layer (GDL) Production Value Estimates and Forecasts (2018-2029)

6 GLOBAL FUEL CELL GAS DIFFUSION LAYER (GDL) CONSUMPTION BY REGION

6.1 Global Fuel Cell Gas Diffusion Layer (GDL) Consumption Estimates and Forecasts by Region: 2018 VS 2022 VS 2029

6.2 Global Fuel Cell Gas Diffusion Layer (GDL) Consumption by Region (2018-2029)

6.2.1 Global Fuel Cell Gas Diffusion Layer (GDL) Consumption by Region: 2018-2029

6.2.2 Global Fuel Cell Gas Diffusion Layer (GDL) Forecasted Consumption by Region (2024-2029)

6.3 North America

6.3.1 North America Fuel Cell Gas Diffusion Layer (GDL) Consumption Growth Rate by Country: 2018 VS 2022 VS 2029

6.3.2 North America Fuel Cell Gas Diffusion Layer (GDL) Consumption by Country (2018-2029)

6.3.3 United States

6.3.4 Canada

6.4 Europe

6.4.1 Europe Fuel Cell Gas Diffusion Layer (GDL) Consumption Growth Rate by Country: 2018 VS 2022 VS 2029

6.4.2 Europe Fuel Cell Gas Diffusion Layer (GDL) Consumption by Country (2018-2029)

6.4.3 Germany

6.4.4 France

6.4.5 U.K.

6.4.6 Italy

6.4.7 Russia

6.5 Asia Pacific

6.5.1 Asia Pacific Fuel Cell Gas Diffusion Layer (GDL) Consumption Growth Rate by Country: 2018 VS 2022 VS 2029

6.5.2 Asia Pacific Fuel Cell Gas Diffusion Layer (GDL) Consumption by Country (2018-2029)

6.5.3 China

6.5.4 Japan

6.5.5 South Korea

6.5.6 China Taiwan

6.5.7 Southeast Asia

6.5.8 India

6.5.9 Australia

6.6 Latin America, Middle East & Africa

6.6.1 Latin America, Middle East & Africa Fuel Cell Gas Diffusion Layer (GDL) Consumption Growth Rate by Country: 2018 VS 2022 VS 2029

6.6.2 Latin America, Middle East & Africa Fuel Cell Gas Diffusion Layer (GDL) Consumption by Country (2018-2029)

6.6.3 Mexico

6.6.4 Brazil

6.6.5 Turkey

6.6.5 GCC Countries

7 SEGMENT BY TYPE

7.1 Global Fuel Cell Gas Diffusion Layer (GDL) Production by Type (2018-2029)

7.1.1 Global Fuel Cell Gas Diffusion Layer (GDL) Production by Type (2018-2029) & (K Sq.m)

7.1.2 Global Fuel Cell Gas Diffusion Layer (GDL) Production Market Share by Type (2018-2029)

7.2 Global Fuel Cell Gas Diffusion Layer (GDL) Production Value by Type (2018-2029)

7.2.1 Global Fuel Cell Gas Diffusion Layer (GDL) Production Value by Type (2018-2029) & (US\$ Million)

7.2.2 Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Market Share by Type (2018-2029)

7.3 Global Fuel Cell Gas Diffusion Layer (GDL) Price by Type (2018-2029)

8 SEGMENT BY APPLICATION

8.1 Global Fuel Cell Gas Diffusion Layer (GDL) Production by Application (2018-2029)

8.1.1 Global Fuel Cell Gas Diffusion Layer (GDL) Production by Application (2018-2029) & (K Sq.m)

8.1.2 Global Fuel Cell Gas Diffusion Layer (GDL) Production by Application (2018-2029) & (K Sq.m)

8.2 Global Fuel Cell Gas Diffusion Layer (GDL) Production Value by Application (2018-2029)

8.2.1 Global Fuel Cell Gas Diffusion Layer (GDL) Production Value by Application (2018-2029) & (US\$ Million)

8.2.2 Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Market Share by Application (2018-2029)

8.3 Global Fuel Cell Gas Diffusion Layer (GDL) Price by Application (2018-2029)

9 VALUE CHAIN AND SALES CHANNELS ANALYSIS OF THE MARKET

9.1 Fuel Cell Gas Diffusion Layer (GDL) Value Chain Analysis

9.1.1 Fuel Cell Gas Diffusion Layer (GDL) Key Raw Materials

9.1.2 Raw Materials Key Suppliers

9.1.3 Fuel Cell Gas Diffusion Layer (GDL) Production Mode & Process

9.2 Fuel Cell Gas Diffusion Layer (GDL) Sales Channels Analysis

9.2.1 Direct Comparison with Distribution Share

9.2.2 Fuel Cell Gas Diffusion Layer (GDL) Distributors

9.2.3 Fuel Cell Gas Diffusion Layer (GDL) Customers

10 GLOBAL FUEL CELL GAS DIFFUSION LAYER (GDL) ANALYZING MARKET DYNAMICS

10.1 Fuel Cell Gas Diffusion Layer (GDL) Industry Trends

10.2 Fuel Cell Gas Diffusion Layer (GDL) Industry Drivers

10.3 Fuel Cell Gas Diffusion Layer (GDL) Industry Opportunities and Challenges

10.4 Fuel Cell Gas Diffusion Layer (GDL) Industry Restraints

11 REPORT CONCLUSION

12 DISCLAIMER

List Of Tables

LIST OF TABLES

Table 1. Secondary Sources

Table 2. Primary Sources

Table 3. Market Value Comparison by Type (2018 VS 2022 VS 2029) & (US\$ Million)

Table 4. Market Value Comparison by Application (2018 VS 2022 VS 2029) & (US\$ Million)

Table 5. Global Fuel Cell Gas Diffusion Layer (GDL) Production by Manufacturers (K Sq.m) & (2018-2023)

Table 6. Global Fuel Cell Gas Diffusion Layer (GDL) Production Market Share by Manufacturers

Table 7. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value by Manufacturers (US\$ Million) & (2018-2023)

Table 8. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Market Share by Manufacturers (2018-2023)

Table 9. Global Fuel Cell Gas Diffusion Layer (GDL) Average Price (USD/m²) of Key Manufacturers (2018-2023)

Table 10. Global Fuel Cell Gas Diffusion Layer (GDL) Industry Manufacturers Ranking, 2021 VS 2022 VS 2023

Table 11. Global Fuel Cell Gas Diffusion Layer (GDL) Manufacturers, Product Type & Application

Table 12. Global Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 13. Global Fuel Cell Gas Diffusion Layer (GDL) by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Production Value of 2022)

Table 14. Manufacturers Mergers & Acquisitions, Expansion Plans)

Table 15. Freudenberg Fuel Cell Gas Diffusion Layer (GDL) Company Information

Table 16. Freudenberg Business Overview

Table 17. Freudenberg Fuel Cell Gas Diffusion Layer (GDL) Production (K Sq.m), Value (US\$ Million), Price (USD/m²) and Gross Margin (2018-2023)

Table 18. Freudenberg Product Portfolio

Table 19. Freudenberg Recent Developments

Table 20. AvCarb Fuel Cell Gas Diffusion Layer (GDL) Company Information

Table 21. AvCarb Business Overview

Table 22. AvCarb Fuel Cell Gas Diffusion Layer (GDL) Production (K Sq.m), Value (US\$ Million), Price (USD/m²) and Gross Margin (2018-2023)

Table 23. AvCarb Product Portfolio

Table 24. AvCarb Recent Developments

- Table 25. Teijin Fuel Cell Gas Diffusion Layer (GDL) Company Information
- Table 26. Teijin Business Overview
- Table 27. Teijin Fuel Cell Gas Diffusion Layer (GDL) Production (K Sq.m), Value (US\$ Million), Price (USD/m?) and Gross Margin (2018-2023)
- Table 28. Teijin Product Portfolio
- Table 29. Teijin Recent Developments
- Table 30. Mitsubishi Chemical Corporation Fuel Cell Gas Diffusion Layer (GDL) Company Information
- Table 31. Mitsubishi Chemical Corporation Business Overview
- Table 32. Mitsubishi Chemical Corporation Fuel Cell Gas Diffusion Layer (GDL) Production (K Sq.m), Value (US\$ Million), Price (USD/m?) and Gross Margin (2018-2023)
- Table 33. Mitsubishi Chemical Corporation Product Portfolio
- Table 34. Mitsubishi Chemical Corporation Recent Developments
- Table 35. Fuel Cells Etc Fuel Cell Gas Diffusion Layer (GDL) Company Information
- Table 36. Fuel Cells Etc Business Overview
- Table 37. Fuel Cells Etc Fuel Cell Gas Diffusion Layer (GDL) Production (K Sq.m), Value (US\$ Million), Price (USD/m?) and Gross Margin (2018-2023)
- Table 38. Fuel Cells Etc Product Portfolio
- Table 39. Fuel Cells Etc Recent Developments
- Table 40. Jntg Co. Fuel Cell Gas Diffusion Layer (GDL) Company Information
- Table 41. Jntg Co. Business Overview
- Table 42. Jntg Co. Fuel Cell Gas Diffusion Layer (GDL) Production (K Sq.m), Value (US\$ Million), Price (USD/m?) and Gross Margin (2018-2023)
- Table 43. Jntg Co. Product Portfolio
- Table 44. Jntg Co. Recent Developments
- Table 45. Cetech Fuel Cell Gas Diffusion Layer (GDL) Company Information
- Table 46. Cetech Business Overview
- Table 47. Cetech Fuel Cell Gas Diffusion Layer (GDL) Production (K Sq.m), Value (US\$ Million), Price (USD/m?) and Gross Margin (2018-2023)
- Table 48. Cetech Product Portfolio
- Table 49. Cetech Recent Developments
- Table 50. Global Fuel Cell Gas Diffusion Layer (GDL) Production Comparison by Region: 2018 VS 2022 VS 2029 (K Sq.m)
- Table 51. Global Fuel Cell Gas Diffusion Layer (GDL) Production by Region (2018-2023) & (K Sq.m)
- Table 52. Global Fuel Cell Gas Diffusion Layer (GDL) Production Market Share by Region (2018-2023)
- Table 53. Global Fuel Cell Gas Diffusion Layer (GDL) Production Forecast by Region

(2024-2029) & (K Sq.m)

Table 54. Global Fuel Cell Gas Diffusion Layer (GDL) Production Market Share Forecast by Region (2024-2029)

Table 55. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Comparison by Region: 2018 VS 2022 VS 2029 (US\$ Million)

Table 56. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value by Region (2018-2023) & (US\$ Million)

Table 57. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Market Share by Region (2018-2023)

Table 58. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Forecast by Region (2024-2029) & (US\$ Million)

Table 59. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Market Share Forecast by Region (2024-2029)

Table 60. Global Fuel Cell Gas Diffusion Layer (GDL) Market Average Price (USD/m?) by Region (2018-2023)

Table 61. Global Fuel Cell Gas Diffusion Layer (GDL) Consumption Comparison by Region: 2018 VS 2022 VS 2029 (K Sq.m)

Table 62. Global Fuel Cell Gas Diffusion Layer (GDL) Consumption by Region (2018-2023) & (K Sq.m)

Table 63. Global Fuel Cell Gas Diffusion Layer (GDL) Consumption Market Share by Region (2018-2023)

Table 64. Global Fuel Cell Gas Diffusion Layer (GDL) Forecasted Consumption by Region (2024-2029) & (K Sq.m)

Table 65. Global Fuel Cell Gas Diffusion Layer (GDL) Forecasted Consumption Market Share by Region (2024-2029)

Table 66. North America Fuel Cell Gas Diffusion Layer (GDL) Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (K Sq.m)

Table 67. North America Fuel Cell Gas Diffusion Layer (GDL) Consumption by Country (2018-2023) & (K Sq.m)

Table 68. North America Fuel Cell Gas Diffusion Layer (GDL) Consumption by Country (2024-2029) & (K Sq.m)

Table 69. Europe Fuel Cell Gas Diffusion Layer (GDL) Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (K Sq.m)

Table 70. Europe Fuel Cell Gas Diffusion Layer (GDL) Consumption by Country (2018-2023) & (K Sq.m)

Table 71. Europe Fuel Cell Gas Diffusion Layer (GDL) Consumption by Country (2024-2029) & (K Sq.m)

Table 72. Asia Pacific Fuel Cell Gas Diffusion Layer (GDL) Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (K Sq.m)

Table 73. Asia Pacific Fuel Cell Gas Diffusion Layer (GDL) Consumption by Country (2018-2023) & (K Sq.m)

Table 74. Asia Pacific Fuel Cell Gas Diffusion Layer (GDL) Consumption by Country (2024-2029) & (K Sq.m)

Table 75. Latin America, Middle East & Africa Fuel Cell Gas Diffusion Layer (GDL) Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (K Sq.m)

Table 76. Latin America, Middle East & Africa Fuel Cell Gas Diffusion Layer (GDL) Consumption by Country (2018-2023) & (K Sq.m)

Table 77. Latin America, Middle East & Africa Fuel Cell Gas Diffusion Layer (GDL) Consumption by Country (2024-2029) & (K Sq.m)

Table 78. Global Fuel Cell Gas Diffusion Layer (GDL) Production by Type (2018-2023) & (K Sq.m)

Table 79. Global Fuel Cell Gas Diffusion Layer (GDL) Production by Type (2024-2029) & (K Sq.m)

Table 80. Global Fuel Cell Gas Diffusion Layer (GDL) Production Market Share by Type (2018-2023)

Table 81. Global Fuel Cell Gas Diffusion Layer (GDL) Production Market Share by Type (2024-2029)

Table 82. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value by Type (2018-2023) & (US\$ Million)

Table 83. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value by Type (2024-2029) & (US\$ Million)

Table 84. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Market Share by Type (2018-2023)

Table 85. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Market Share by Type (2024-2029)

Table 86. Global Fuel Cell Gas Diffusion Layer (GDL) Price by Type (2018-2023) & (USD/m²)

Table 87. Global Fuel Cell Gas Diffusion Layer (GDL) Price by Type (2024-2029) & (USD/m²)

Table 88. Global Fuel Cell Gas Diffusion Layer (GDL) Production by Application (2018-2023) & (K Sq.m)

Table 89. Global Fuel Cell Gas Diffusion Layer (GDL) Production by Application (2024-2029) & (K Sq.m)

Table 90. Global Fuel Cell Gas Diffusion Layer (GDL) Production Market Share by Application (2018-2023)

Table 91. Global Fuel Cell Gas Diffusion Layer (GDL) Production Market Share by Application (2024-2029)

Table 92. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value by Application

(2018-2023) & (US\$ Million)

Table 93. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value by Application (2024-2029) & (US\$ Million)

Table 94. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Market Share by Application (2018-2023)

Table 95. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Market Share by Application (2024-2029)

Table 96. Global Fuel Cell Gas Diffusion Layer (GDL) Price by Application (2018-2023) & (USD/m²)

Table 97. Global Fuel Cell Gas Diffusion Layer (GDL) Price by Application (2024-2029) & (USD/m²)

Table 98. Key Raw Materials

Table 99. Raw Materials Key Suppliers

Table 100. Fuel Cell Gas Diffusion Layer (GDL) Distributors List

Table 101. Fuel Cell Gas Diffusion Layer (GDL) Customers List

Table 102. Fuel Cell Gas Diffusion Layer (GDL) Industry Trends

Table 103. Fuel Cell Gas Diffusion Layer (GDL) Industry Drivers

Table 104. Fuel Cell Gas Diffusion Layer (GDL) Industry Restraints

Table 105. Authors List of This Report

List Of Figures

LIST OF FIGURES

Figure 1. Research Methodology

Figure 2. Research Process

Figure 3. Key Executives Interviewed

Figure 4. Fuel Cell Gas Diffusion Layer (GDL) Product Picture

Figure 5. Market Value Comparison by Type (2018 VS 2022 VS 2029) & (US\$ Million)

Figure 6. Carbon Paper Type Product Picture

Figure 7. Carbon Cloth Type Product Picture

Figure 8. Hydrogen-oxygen Fuel Cell Product Picture

Figure 9. Hydrocarbon Fuels Cell Product Picture

Figure 10. Others Product Picture

Figure . Global Fuel Cell Gas Diffusion Layer (GDL) Production Value (US\$ Million), 2018 VS 2022 VS 2029

Figure 1. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value (2018-2029) & (US\$ Million)

Figure 2. Global Fuel Cell Gas Diffusion Layer (GDL) Production Capacity (2018-2029) & (K Sq.m)

Figure 3. Global Fuel Cell Gas Diffusion Layer (GDL) Production (2018-2029) & (K Sq.m)

Figure 4. Global Fuel Cell Gas Diffusion Layer (GDL) Average Price (USD/m?) & (2018-2029)

Figure 5. Global Fuel Cell Gas Diffusion Layer (GDL) Key Manufacturers, Manufacturing Sites & Headquarters

Figure 6. Global Fuel Cell Gas Diffusion Layer (GDL) Manufacturers, Date of Enter into This Industry

Figure 7. Global Top 5 and 10 Fuel Cell Gas Diffusion Layer (GDL) Players Market Share by Production Valu in 2022

Figure 8. Manufacturers Type (Tier 1, Tier 2, and Tier 3): 2018 VS 2022

Figure 9. Global Fuel Cell Gas Diffusion Layer (GDL) Production Comparison by Region: 2018 VS 2022 VS 2029 (K Sq.m)

Figure 10. Global Fuel Cell Gas Diffusion Layer (GDL) Production Market Share by Region: 2018 VS 2022 VS 2029

Figure 11. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Comparison by Region: 2018 VS 2022 VS 2029 (US\$ Million)

Figure 12. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Market Share by Region: 2018 VS 2022 VS 2029

Figure 13. North America Fuel Cell Gas Diffusion Layer (GDL) Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 14. Europe Fuel Cell Gas Diffusion Layer (GDL) Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 15. China Fuel Cell Gas Diffusion Layer (GDL) Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 16. Japan Fuel Cell Gas Diffusion Layer (GDL) Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 17. Global Fuel Cell Gas Diffusion Layer (GDL) Consumption Comparison by Region: 2018 VS 2022 VS 2029 (K Sq.m)

Figure 18. Global Fuel Cell Gas Diffusion Layer (GDL) Consumption Market Share by Region: 2018 VS 2022 VS 2029

Figure 19. North America Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 20. North America Fuel Cell Gas Diffusion Layer (GDL) Consumption Market Share by Country (2018-2029)

Figure 21. United States Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 22. Canada Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 23. Europe Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 24. Europe Fuel Cell Gas Diffusion Layer (GDL) Consumption Market Share by Country (2018-2029)

Figure 25. Germany Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 26. France Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 27. U.K. Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 28. Italy Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 29. Netherlands Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 30. Asia Pacific Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 31. Asia Pacific Fuel Cell Gas Diffusion Layer (GDL) Consumption Market Share by Country (2018-2029)

Figure 32. China Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate

(2018-2029) & (K Sq.m)

Figure 33. Japan Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 34. South Korea Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 35. China Taiwan Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 36. Southeast Asia Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 37. India Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 38. Australia Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 39. Latin America, Middle East & Africa Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 40. Latin America, Middle East & Africa Fuel Cell Gas Diffusion Layer (GDL) Consumption Market Share by Country (2018-2029)

Figure 41. Mexico Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 42. Brazil Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 43. Turkey Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 44. GCC Countries Fuel Cell Gas Diffusion Layer (GDL) Consumption and Growth Rate (2018-2029) & (K Sq.m)

Figure 45. Global Fuel Cell Gas Diffusion Layer (GDL) Production Market Share by Type (2018-2029)

Figure 46. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Market Share by Type (2018-2029)

Figure 47. Global Fuel Cell Gas Diffusion Layer (GDL) Price (USD/m²) by Type (2018-2029)

Figure 48. Global Fuel Cell Gas Diffusion Layer (GDL) Production Market Share by Application (2018-2029)

Figure 49. Global Fuel Cell Gas Diffusion Layer (GDL) Production Value Market Share by Application (2018-2029)

Figure 50. Global Fuel Cell Gas Diffusion Layer (GDL) Price (USD/m²) by Application (2018-2029)

Figure 51. Fuel Cell Gas Diffusion Layer (GDL) Value Chain

Figure 52. Fuel Cell Gas Diffusion Layer (GDL) Production Mode & Process

Figure 53. Direct Comparison with Distribution Share

Figure 54. Distributors Profiles

Figure 55. Fuel Cell Gas Diffusion Layer (GDL) Industry Opportunities and Challenges

Highlights

The global Fuel Cell Gas Diffusion Layer (GDL) market is projected to reach US\$ million by 2028 from an estimated US\$ million in 2022, at a CAGR of % during 2024 and 2029. North American market for Fuel Cell Gas Diffusion Layer (GDL) is estimated to increase from \$ million in 2022 to reach \$ million by 2028, at a CAGR of % during the forecast period of 2023 through 2028.

Asia-Pacific market for Fuel Cell Gas Diffusion Layer (GDL) is estimated to increase from \$ million in 2022 to reach \$ million by 2029, at a CAGR of % during the forecast period of 2023 through 2029.

The major global companies of Fuel Cell Gas Diffusion Layer (GDL) include Freudenberg, AvCarb, Teijin, Mitsubishi Chemical Corporation, Fuel Cells Etc, Jntg Co. and Cetech, etc. In 2022, the world's top three vendors accounted for approximately % of the revenue.

The global market for Fuel Cell Gas Diffusion Layer (GDL) in Hydrogen-oxygen Fuel Cell is estimated to increase from \$ million in 2023 to \$ million by 2029, at a CAGR of % during the forecast period of 2023 through 2029.

Considering the economic change due to COVID-19 and Russia-Ukraine War Influence, Carbon Paper Type, which accounted for % of the global market of Fuel Cell Gas Diffusion Layer (GDL) in 2022, is expected to reach million US\$ by 2029, growing at a revised CAGR of % from 2023 to 2029.

Report Scope

This report aims to provide a comprehensive presentation of the global market for Fuel Cell Gas Diffusion Layer (GDL), with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Fuel Cell Gas Diffusion Layer (GDL).

The Fuel Cell Gas Diffusion Layer (GDL) market size, estimations, and forecasts are provided in terms of output/shipments (K Sq.m) and revenue (\$ millions), considering 2022 as the base year, with history and forecast data for the period from 2018 to 2029. This report segments the global Fuel Cell Gas Diffusion Layer (GDL) market comprehensively. Regional market sizes, concerning products by types, by application, and by players, are also provided. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report

also discusses technological trends and new product developments.

The report will help the Fuel Cell Gas Diffusion Layer (GDL) manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, production, and average price for the overall market and the sub-segments across the different segments, by company, product type, application, and regions.

Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing.

This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2017-2022. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

Freudenberg

AvCarb

Teijin

Mitsubishi Chemical Corporation

Fuel Cells Etc

Jntg Co.

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