

# Global Gas Diffusion Layer for Electrolyzer Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Gas Diffusion Layer for Electrolyzer market size will reach 1,248.16 Million USD in 2025 and is projected to reach 42,125.79 Million USD by 2032, with a CAGR of 65.32% (2025-2032). Notably, the China Gas Diffusion Layer for Electrolyzer market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

A gas diffusion layer (GDL) is a crucial component in electrolyzers, particularly in proton exchange membrane (PEM) electrolyzers, which are used to produce hydrogen through the process of water electrolysis. The GDL is positioned between the bipolar plate and the catalyst-coated membrane. Its primary functions include facilitating the uniform distribution of gases (hydrogen and oxygen) to and from the catalyst layer, ensuring efficient gas transport, and providing structural support to the membrane-electrode assembly. Typically made from porous materials such as carbon paper or carbon cloth, the GDL is designed to be both electrically conductive and highly permeable to gases. This permeability allows for the effective removal of produced gases while maintaining the necessary moisture balance within the electrolyzer. The performance, efficiency, and durability of the electrolyzer are significantly influenced by the properties of the GDL, making it a vital element in the overall system.

The major global manufacturers of Gas Diffusion Layer for Electrolyzer include SGL,

Teijin, Freudenberg, Toray, G-Hydrogen, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Gas Diffusion Layer for Electrolyzer. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Gas Diffusion Layer for Electrolyzer market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Gas Diffusion Layer for Electrolyzer market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Gas Diffusion Layer for Electrolyzer industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Gas Diffusion Layer for Electrolyzer Include:

SGL

Teijin

Freudenberg

Toray

G-Hydrogen

Gas Diffusion Layer for Electrolyzer Product Segment Include:

Carbon Cloth

Carbon Paper

Gas Diffusion Layer for Electrolyzer Product Application Include:

Electrolyzers below MW

Electrolyzer above MW

## **Chapter Scope**

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Gas Diffusion Layer for Electrolyzer Capacity and Production Analysis

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