

Global Ion Exchange Membranes for Vanadium Redox Flow Battery Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ion Exchange Membranes for Vanadium Redox Flow Battery market size is expected to reach \$ 580 million by 2032, rising at a market growth of 14.4% CAGR during the forecast period (2026-2032).

In 2025, global Ion Exchange Membranes for Vanadium Redox Flow Battery production reached approximately 1.67 million Sqm, with an average global market price of around US\$128 per Sqm. Ion exchange membranes are a critical component of redox flow batteries (RFBs), and their major purpose is to keep the redox-active species in the two half cells separate and allow the passage of charge-balancing ions. It prevents cross mixing of the positive and negative electrolytes, while still allowing the transport of ions to complete the circuit during the passage of current.

The global flow battery industry grows alongside the expansion of long-duration energy storage demand. Major economies have introduced policies to support long-duration energy storage deployment, driving steady growth in vanadium redox flow battery installations and directly boosting market demand for ion exchange membranes, the core upstream material. Long-term demand for high-share renewable energy grid integration and peak load regulation creates sustained market space for flow batteries and supporting membrane materials. R&D subsidies, demonstration project guidance and procurement preferences on the policy side further accelerate industrial implementation.

The supply side features a differentiated competitive landscape. Perfluorosulfonic acid ion exchange membranes represent the current mainstream technical route, with leading enterprises mastering core resin synthesis and membrane fabrication processes

and holding major market share thanks to stable chemical performance. Non-fluorinated and composite reinforced membranes focus on cost optimization, with multiple enterprises completing pilot validation and advancing mass production, while their overall commercial maturity still lags behind the mainstream route. Ion selectivity, acid resistance and cost of membrane materials directly determine the operating efficiency, cycle life and overall economics of vanadium redox flow battery systems, making them a core technical R&D priority across the industrial chain.

On trade and supply chains, rising requirements for localized energy storage supply chains in major economies lift trade compliance costs and drive regional capacity layout. Improving industry standards set clear specifications for core membrane performance indicators, phasing out outdated capacity and accelerating technological upgrading. Deepened cross-chain collaboration, with joint development between membrane producers, stack manufacturers and system integrators becoming common practice, speeds up technology adoption and cost reduction.

This report studies the global Ion Exchange Membranes for Vanadium Redox Flow Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ion Exchange Membranes for Vanadium Redox Flow Battery and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ion Exchange Membranes for Vanadium Redox Flow Battery that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ion Exchange Membranes for Vanadium Redox Flow Battery total production and demand, 2021-2032, (K Sqm)

Global Ion Exchange Membranes for Vanadium Redox Flow Battery total production value, 2021-2032, (USD Million)

Global Ion Exchange Membranes for Vanadium Redox Flow Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Ion Exchange Membranes for Vanadium Redox Flow Battery consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Ion Exchange Membranes for Vanadium Redox Flow Battery domestic production, consumption, key domestic manufacturers and share

Global Ion Exchange Membranes for Vanadium Redox Flow Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Ion Exchange Membranes for Vanadium Redox Flow Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Ion Exchange Membranes for Vanadium Redox Flow Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Ion Exchange Membranes for Vanadium Redox Flow Battery market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Chemours, AGC, FuMa-Tech, Suzhou Kerun New Materials, Shandong Dongyue Future Hydrogen Energy Materials, Shenzhen Zhonghe Energy Storage Technology, Ionomr Innovations, Guizhou Zhixi Technology, Shanxi Guorun Energy Storage Technology, Shanghai Hyproof Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ion Exchange Membranes for Vanadium Redox Flow Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ion Exchange Membranes for Vanadium Redox Flow Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ion Exchange Membranes for Vanadium Redox Flow Battery Market,
Segmentation by Type:

Perfluorinated Ion Exchange Membrane

Non/Partially Fluorinated Ion Exchange Membrane

Global Ion Exchange Membranes for Vanadium Redox Flow Battery Market,
Segmentation by Thickness:

Thickness 100?m

Global Ion Exchange Membranes for Vanadium Redox Flow Battery Market,
Segmentation by Conductivity:

Conductivity ?0.05S/cm

Conductivity >0.05S/cm

Global Ion Exchange Membranes for Vanadium Redox Flow Battery Market,
Segmentation by Application:

Vanadium Redox Flow Battery

Iron-based Flow Battery

Zinc-Bromine Flow Battery

Others

Companies Profiled:

Chemours

AGC

FuMa-Tech

Suzhou Kerun New Materials

Shandong Dongyue Future Hydrogen Energy Materials

Shenzhen Zhonghe Energy Storage Technology

Ionomr Innovations

Guizhou Zhixi Technology

Shanxi Guorun Energy Storage Technology

Shanghai Hyproof Technology

Key Questions Answered:

1. How big is the global Ion Exchange Membranes for Vanadium Redox Flow Battery market?
2. What is the demand of the global Ion Exchange Membranes for Vanadium Redox Flow Battery market?
3. What is the year over year growth of the global Ion Exchange Membranes for Vanadium Redox Flow Battery market?
4. What is the production and production value of the global Ion Exchange Membranes for Vanadium Redox Flow Battery market?

5. Who are the key producers in the global Ion Exchange Membranes for Vanadium Redox Flow Battery market?
6. What are the growth factors driving the market demand?

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