

Global Rubber Seals for Liquid Cooling Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G5DC01D91151EN.html>

Date: August 2026

Pages: 110

Price: US\$ 3,480.00 (Single User License)

ID: G5DC01D91151EN

Abstracts

According to our (Global Info Research) latest study, the global Rubber Seals for Liquid Cooling market size was valued at US\$ 329 million in 2025 and is forecast to a readjusted size of US\$ 971 million by 2032 with a CAGR of 15.1% during review period.

Rubber seals for liquid cooling are elastomeric sealing components used in data center liquid cooling, electric vehicle battery cooling, energy storage cooling, liquid cooled charging equipment, and industrial electronics thermal management systems. These products are designed to prevent coolant leakage, seal interfaces, compensate pressure variation, absorb vibration, and support long term system reliability. Major product forms include O rings, shaped seals, cold plate gaskets, manifold gaskets, pump and valve seals, internal seals for quick connectors, and molded rubber sealing components. Common materials include EPDM, FKM, silicone rubber, HNBR, and thermoplastic elastomers. The key manufacturing processes include compound formulation, rubber mixing, compression molding, injection molding, vulcanization, precision trimming, surface treatment, inspection, and clean packaging. Important technical requirements include compatibility with water glycol coolant, deionized water and corrosion inhibitors, low compression set, low extractables, thermal cycling resistance, aging resistance, dimensional stability, and reliable sealing under pressure fluctuation. In 2025, the global average selling price of rubber seals for liquid cooling is estimated at about USD 1.50 per unit, with an average industry gross margin of approximately 30% to 45%.

Rubber seals for liquid cooling sit at the intersection of polymer material products and liquid cooling thermal management systems. The upstream segment includes EPDM, FKM, silicone rubber, carbon black, curing agents, additives, and precision molds. The

midstream segment covers the production of O rings, gaskets, and molded sealing components, while the downstream segment is mainly driven by data centers, electric vehicles, energy storage, power electronics, and industrial equipment. As liquid cooling moves from pilot deployment to broader commercialization, sealing components are becoming reliability critical parts rather than ordinary auxiliary components.

The competitive landscape is shaped by two groups of suppliers. Global sealing and engineered rubber component manufacturers have advantages in material databases, formulation validation, quality systems, and global customer access. Regional rubber seal producers are more competitive in customized development, flexible delivery, and cost control. Data center liquid cooling requires low extractables, low compression set, and long term leakage prevention, while electric vehicle and energy storage applications place more emphasis on cost efficiency, volume delivery, and coolant compatibility. As a result, supplier qualification standards vary significantly across downstream applications.

Industry policies and technology trends are supporting continued growth. Energy efficiency requirements for data centers, AI computing infrastructure investment, thermal management upgrades in electric vehicles, and higher safety requirements for energy storage systems are all expanding the use of liquid cooling. Future opportunities will mainly come from cold plate cooling, rack level liquid cooling, battery pack cooling, and liquid cooled fast charging. However, the market also faces material substitution, integration of tubing and sealing structures, modular system design, and price competition. Overall, this is a growing niche market with clear long term potential, but suppliers need proven materials, customer certification, and stable mass production capability to build sustainable barriers.

This report is a detailed and comprehensive analysis for global Rubber Seals for Liquid Cooling market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Rubber Seals for Liquid Cooling market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Rubber Seals for Liquid Cooling market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Rubber Seals for Liquid Cooling market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Rubber Seals for Liquid Cooling market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Rubber Seals for Liquid Cooling

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Rubber Seals for Liquid Cooling market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Parker Hannifin Corporation, Freudenberg Sealing Technologies, Rubber Fab, Garlock, Universal Polymer & Rubber Ltd., Shaanxi Kelong New Materials Technology Co., Ltd., Hebei Shida Seal Group, Wayne Rubber, Trelleborg AB, Hutchinson SA, etc.

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

Market Segmentation

Rubber Seals for Liquid Cooling market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and

value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Cold Plate Seals

Manifold Seals

Quick Connector Seals

Pump and Valve Seals

Enclosure and Module Seals

Others

Market segment by Material Type

EPDM

FKM

Silicone Rubber

HNBR

Others

Market segment by Coolant Compatibility

Water Compatible

Deionized Water Compatible

Water-glycol Compatible

Dielectric Fluid Compatible

Others

Market segment by Application

Data Center Industry

New Energy Vehicle Industry

Energy Storage Industry

Power Electronics Industry

Industrial Equipment Industry

Others

Major players covered

Parker Hannifin Corporation

Freudenberg Sealing Technologies

Rubber Fab

Garlock

Universal Polymer & Rubber Ltd.

Shaanxi Kelong New Materials Technology Co., Ltd.

Hebei Shida Seal Group

Wayne Rubber

Trelleborg AB

Hutchinson SA

Cooper Standard Holdings Inc.

NOK Corporation

Anhui Zhongding Sealing Parts Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Rubber Seals for Liquid Cooling product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Rubber Seals for Liquid Cooling, with price, sales quantity, revenue, and global market share of Rubber Seals for Liquid Cooling from 2021 to 2026.

Chapter 3, the Rubber Seals for Liquid Cooling competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Rubber Seals for Liquid Cooling breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions,

from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Rubber Seals for Liquid Cooling market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Rubber Seals for Liquid Cooling.

Chapter 14 and 15, to describe Rubber Seals for Liquid Cooling sales channel, distributors, customers, research findings and conclusion.

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