

Global Cyano Chromatography Packing Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Cyano Chromatography Packing market size was valued at US\$ 88.49 million in 2025 and is forecast to a readjusted size of US\$ 128 million by 2032 with a CAGR of 5.4% during review period.

Cyano (CN) chromatography media are liquid chromatography stationary phases based on spherical silica, hybrid silica, core-shell silica, or polymer microspheres, functionalized with cyanopropyl or related cyano ligands. These materials can operate under normal-phase, reversed-phase, and hydrophilic interaction-related separation modes. They are used for the analysis and preparative purification of moderately polar compounds, highly hydrophobic compounds, pharmaceutical impurities, natural products, and structurally similar small molecules. The estimated gross margin is approximately 55%.

Cyano stationary phases are a specialized class of polar bonded phases in HPLC. Their market size is significantly smaller than mainstream reversed-phase media such as C18 and C8, but they typically exhibit higher unit value, higher method validation cost, and stronger customer stickiness. Demand is mainly driven by pharmaceutical quality research, impurity profiling, food and environmental testing, natural product separation, and small-scale preparative purification. Customers generally purchase based on established analytical methods, pharmacopeia compliance, and chromatographic performance (especially peak shape and selectivity), rather than on price alone.

The key value of cyano phases lies in providing orthogonal selectivity relative to conventional reversed-phase columns. The cyano ligand enables dipole interactions, weak hydrophobic interactions, and partial π interactions, making it suitable for

compounds that are poorly retained or excessively retained on C18 columns, or that show poor equilibration or inconsistent surface interactions on bare silica phases. Purchasing decisions are therefore heavily driven by batch-to-batch consistency, low metal content, minimal tailing, stable efficiency, and reliable method transfer.

Future growth is expected to come more from method upgrades, expansion of UHPLC applications, and high-end domestic substitution rather than replacement of mainstream reversed-phase materials. Opportunities exist in sub-2 µm particles, core-shell architectures, preparative wide-pore materials, and cyano-based mixed-mode stationary phases. However, market penetration depends on pharmacopeia coverage, long-term stability datasets, and scalable production capability for consistent batch supply.

This report is a detailed and comprehensive analysis for global Cyano Chromatography Packing 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 Cyano Chromatography Packing market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Cyano Chromatography Packing market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Cyano Chromatography Packing market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Cyano Chromatography Packing market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 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 Cyano Chromatography Packing

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 Cyano Chromatography Packing 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 Merck, Agilent, Waters, Thermo Fisher Scientific, Phenomenex, YMC, GL Sciences, Nouryon, SiliCycle, Sepax Technologies, etc.

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

Market Segmentation

Cyano Chromatography Packing 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

Spherical Silica Cyano Packing

Hybrid Silica Cyano Packing

Core-Shell Cyano Packing

Polymer-Based Cyano Packing

Mixed-Mode Cyano Packing

Market segment by Particle Size

Sub-2 μ m

2-3 μ m

3-5 μ m

5-10 μ m

Above 10 μ m

Market segment by Pore Size

60-90 $\text{\AA}$

100-150 $\text{\AA}$

200-300 $\text{\AA}$

Above 300 $\text{\AA}$

Other Pore Sizes

Market segment by Surface Treatment

Endcapped Cyano

Non-Endcapped Cyano

High-Coverage Cyano

Low-Carbon Load Cyano

Mixed-Ligand Cyano

Market segment by Application

Normal-Phase Separation

Reversed-Phase Separation

Polar Compound Analysis

Preparative Purification

Quality Control and Method Development

Other Applications

Major players covered

Merck

Agilent

Waters

Thermo Fisher Scientific

Phenomenex

YMC

GL Sciences

Nouryon

SiliCycle

Sepax Technologies

Restek

KNAUER

Macherey-Nagel

Nacalai Tesque

Welch Materials

Dr. Maisch

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 Cyano Chromatography Packing product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cyano Chromatography Packing, with price, sales quantity, revenue, and global market share of Cyano Chromatography Packing from 2021 to 2026.

Chapter 3, the Cyano Chromatography Packing competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cyano Chromatography Packing 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 Cyano Chromatography Packing 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 Cyano Chromatography Packing.

Chapter 14 and 15, to describe Cyano Chromatography Packing sales channel, distributors, customers, research findings and conclusion.

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