

Global Chiral Separation Materials 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 Chiral Separation Materials market size was valued at US\$ 2837 million in 2025 and is forecast to a readjusted size of US\$ 7477 million by 2032 with a CAGR of 14.6% during review period.

Chiral separation materials refer to functional material systems designed for the selective recognition and separation of enantiomers, typically based on porous supports (e.g., silica, synthetic polymers, or biopolymer matrices) functionalized with chiral recognition elements (e.g., polysaccharide derivatives, cyclodextrins, chiral ligands, or metal complexes) that enable differential interactions (e.g., hydrogen bonding, π - π interactions, steric matching) with enantiomers, thereby achieving chiral resolution in chromatographic, crystallization, or membrane-based processes.

Pricing is highly differentiated, with polysaccharide-based CSPs priced at USD 2,000–5,000 per column in analytical scale and reaching tens of thousands USD/kg for preparative media, dominating value contribution, while Pirkle-type and cyclodextrin-based phases occupy mid-range levels; gross margins are generally high, with proprietary ligand systems achieving 60–80% versus 40–60% for standard CSPs; downstream demand is dominated by pharmaceutical chiral separation, with agrochemicals and fine chemicals providing incremental growth; upstream relies on high-purity silica/polymer matrices and chiral ligand synthesis, while downstream is tightly integrated into drug development and manufacturing workflows; the market structure is characterized by a technology-driven oligopoly led by Daicel, with regional players emerging, though ligand design and IP barriers remain key uncertainties; overall, the industry is in a steady growth phase driven by increasing chiral drug

penetration, with structural features of high-end concentration and a fragmented long tail.

This report is a detailed and comprehensive analysis for global Chiral Separation Materials 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 Chiral Separation Materials market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Chiral Separation Materials market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Chiral Separation Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Chiral Separation Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Chiral Separation Materials
- 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 Chiral Separation Materials 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 Daicel, YMC, Merck KGaA, Thermo Fisher Scientific, Agilent Technologies, Shimadzu, Chiral Technologies, Regis Technologies, Phenomenex, Avantor (VWR), etc.

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

Market Segmentation

Chiral Separation Materials 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

Polysaccharide-based CSP

Pirkle-type CSP

Cyclodextrin-based

Protein-based CSP

Ligand-exchange CSP

Market segment by Carrier

Silica-based

Polymer-based

Hybrid materials

Monolithic

Market segment by Application

Pharmaceutical Chiral Separation

Agrochemical Chiral Separation

Fine Chemicals

Food & Flavor

Others

Major players covered

Daicel

YMC

Merck KGaA

Thermo Fisher Scientific

Agilent Technologies

Shimadzu

Chiral Technologies

Regis Technologies

Phenomenex

Avantor (VWR)

Sepax Technologies

Dalian Institute of Chemical Physics

Nankai University Chiral Group

Welch Materials

Dikma Technologies

Hanbon Science & Technology

Qingdao Kechuang

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 Chiral Separation Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Chiral Separation Materials, with price, sales quantity, revenue, and global market share of Chiral Separation Materials from 2021 to 2026.

Chapter 3, the Chiral Separation Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Chiral Separation Materials 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 Chiral Separation Materials 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 Chiral Separation Materials.

Chapter 14 and 15, to describe Chiral Separation Materials sales channel, distributors, customers, research findings and conclusion.

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