

Global Chitosan Market Size Study, by Product (Food Grade, Industrial Grade, Pharmaceutical Grade, Research Grade), by Source (Crab, Krill, Shrimp, Squid), by Packaging Material (Glass, Metal, Paper & Plastic), by Application (Agrochemicals, Cosmetics & Personal Care, Food & Beverages, Medical & Pharmaceuticals, Water Treatment) and Regional Forecasts 2022-2032

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Abstracts

Global Chitosan Market is valued approximately at USD 1.75 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 12.80% over the forecast period 2024-2032. Chitosan is a naturally occurring polysaccharide obtained from the chitin found in the exoskeletons of crustaceans such as shrimp, crabs, and lobsters. Chitosan is created by treating chitin with an alkaline substance, usually sodium hydroxide, followed by a process of deacetylation, which removes acetyl groups from the chitin molecule. The increasing awareness of chitosan's properties, such as its biocompatibility, biodegradability, and antimicrobial activity, has led to a rise in demand for chitosan in diverse industries such as pharmaceuticals, food & beverages, cosmetics, agriculture, and water treatment. There is an extensive demand for biodegradable materials, including chitosan, with an increasing focus on environmentally friendly alternatives. Production of chitosan involves extracting and processing chitin from crustacean shells, which are costly and labor-intensive, subsequently hampering the adoption of chitosan. Expanding research & development activities to develop value-added chitosan products and formulations by modifying their properties or combining them with other materials is expected to contribute to the chitosan market growth.

The increasing awareness of chitosan's biocompatibility, biodegradability, and antimicrobial activity has led to its rising demand across various industries. In the pharmaceutical industry, chitosan is used in drug delivery systems, wound healing products, and tissue engineering due to its biocompatibility and controlled-release properties. The food and beverage industry utilizes chitosan as a natural additive, thickener, and stabilizer to improve texture, viscosity, and stability of food products. Additionally, the demand for chitosan in water treatment processes is driven by its ability to remove pollutants, heavy metals, and organic compounds. However, the high production costs associated with extracting and processing chitin from crustacean shells can hamper the widespread adoption of chitosan. Despite these challenges, ongoing research and development activities aimed at creating value-added chitosan products and formulations are expected to drive market growth.

Increasing uses of chitosan as a thickener and coagulant in food & healthcare industry is acting as a catalyzing factor for the market growth at a substantial rate. Food-grade chitosan is precisely processed and refined to meet the safety and quality standards in the food & beverage industry. It undergoes thorough purification to remove impurities and ensure its suitability for human consumption. Industrial-grade chitosan is primarily used in non-food industrial applications. It is less refined than food-grade chitosan and may have different molecular weights. Industrial-grade chitosan is utilized in wastewater treatment, textiles, cosmetics, agriculture, and biotechnology sectors. Pharmaceutical-grade chitosan undergoes rigorous quality control measures to ensure its purity, safety, and consistency in pharmaceutical and biomedical applications.

Furthermore, Chitosan is applied as a coating on glass surfaces to enhance their barrier properties and improve the packaging's overall performance. The chitosan coating helps to prevent the migration of gasses, moisture, and contaminants, thereby extending the shelf life of the packaged products. Chitosan is used as a laminating material for metal packaging. Applying a chitosan film as a barrier layer between the metal surface and the contents can improve the packaging's resistance to corrosion, oxidation, and moisture. Chitosan can also be incorporated into paper-based packaging materials to enhance their properties. Paper packaging acquires improved moisture resistance, antimicrobial properties, and mechanical strength by adding chitosan nanoparticles and chitosan-based coatings.

The key regions considered for the global Chitosan Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is a dominating region in the Chitosan Market in terms of revenue. The market growth in the

region is being attributed to factors including strong presence of established industries like healthcare and water treatment fuels demand for chitosan's various applications. Additionally, rising public health initiatives emphasize proper wastewater treatment, creating further market growth. Furthermore, growing awareness about natural ingredients is propelling the use of chitosan in cosmetics and weight management products. Whereas, the market in Asia Pacific is anticipated to grow at the fastest rate over the forecast period fueled by as the region is a major producer of seafood, which is resulting into an abundant supply of raw materials like shrimp and crab shells to make chitosan. Also, there is a growing demand for bio-based products and a rise in government support for eco-friendly industries. Moreover, countries like China and India have rapidly developing end-use industries for chitosan, such as water treatment, cosmetics, and agriculture. These factors combine to make Asia Pacific a leader in the global chitosan market.

Major market players included in this report are:

ADVANCED BIOPOLYMERS AS

AgraTech International, Inc.

BIO21 COMPANY LIMITED

Biosynth Ltd.

CD Bioparticles

ChitogenX Inc.

ChitoLytic

Dainichiseika Color & Chemicals Mfg. Co., Ltd.

Enargia Technologies

Fengchen Group Co., Ltd.

Glentham Life Sciences Ltd

Golden-Shell Pharmaceutical Co., Ltd.

Heppe Medical Chitosan GmbH

ISF Chitin & Marine Products LLP

Iterro, Inc.

The detailed segments and sub-segments of the market are explained below:

By Product

Food Grade

Industrial Grade

Pharmaceutical Grade

Research Grade

By Source

Crab

Krill

Shrimp

Squid

By Packaging Material

Glass

Metal

Paper & Plastic

By Application

Agrochemicals

Cosmetics & Personal Care

Food & Beverages

Medical & Pharmaceuticals

Water Treatment

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

RoLA

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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