

Hydroxyapatite Market Report and Forecast 2025-2034

Market Report | 2025-08-11 | 151 pages | EMR Inc.

AVAILABLE LICENSES:

- Single User License \$3599.00
- Five User License \$4249.00
- Corporate License \$5099.00

Report description:

The global hydroxyapatite market attained a value of USD 1168.54 Million in 2024. The market is estimated to grow at a CAGR of 8.80% in the forecast period of 2025-2034 to reach USD 2716.02 Million by 2034.

Hydroxyapatite Market Growth

Hydroxyapatite coatings in orthopaedic implants and dental care products offer enhanced properties, including gap healing between bones. It is primarily used as a coating for implants, bone grafts, and bone fillers.

With the heightened demand for hydroxyapatite as a fluoride substitute in toothpaste and other dental products and its efficacy in enamel remineralisation compared to saliva and other chemicals, the market is likely to witness a healthy growth.

Key Trends and Developments

Rising use of hydroxyapatite as a bone substitute; expansion of the geriatric population; increasing use in dentistry; and research activities on alternative raw materials for hydroxyapatite production are impacting the market growth

Oct 17, 2023

Oral Science announced the start of the distribution of Curaprox Be You, an everyday anti-caries and remineralizing toothpaste containing hydroxyapatite.

Jun 20, 2023

Dr Jen Natural, an online store for natural dental products, announced the launch of new restorative nano-hydroxyapatite toothpaste, named Remineralizing Toothpaste. The toothpaste contains 10% of the active ingredient that is known to remineralise

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

the teeth.

Sep 13, 2023

Cocofloss, an oral care company launched a whitening, nano-hydroxyapatite toothpaste that will balance the oral microbiome, repair sensitivity, whiten teeth, and rebuild enamel strength.

Use as a bone substitute

Hydroxyapatite is widely used as a bone substitute due to its inherent chemical similarity to actual bone. Coating an implant with HA creates an osteophilic surface that aids in the attachment of the natural bone to the implant.

Increasing geriatric population

The ageing population is expected to add to the demand for hydroxyapatite in orthopaedic applications. According to the World Health Organisation (WHO), one in six persons will be 60 years of age or older by 2030. The likelihood of having conditions like osteoarthritis, problems with the knees, joints, and hips, as well as tooth decay, is higher in the geriatric population.

Growing use in dentistry

Hydroxyapatite, a stable and biocompatible calcium phosphate with low solubility, is extensively used in dentistry and oral care products for a variety of purposes, including tooth remineralisation, sensitivity reduction, oral biofilm control, and teeth whitening. As a filler, hydroxyapatite nanoparticles can repair minor flaws and depressions on the enamel surface.

Increasing research on alternative raw materials for hydroxyapatite production

With the increasing demand for hydroxyapatite, there is a greater focus on identifying suitable biowaste-derived materials to use as raw materials for hydroxyapatite synthesis, which would help lower production costs and increase the supply of hydroxyapatite in the market.

Hydroxyapatite Market Trends

Hydroxyapatite is one of the most biocompatible, bioactive, and biodegradable materials for orthopaedic, dental, and maxillofacial applications because it encourages bone in-growth and Osseo-mix.

Hydroxyapatite is being combined with other materials such as cadmium selenide, graphene oxide, amnion membranes, and platelet-rich fibrins, improving the properties and applications of hydroxyapatite.

Contrary to other alloplastic materials like high-density polyethylene and silicon, hydroxyapatite cement is biocompatible and easily moldable; thus, it finds extensive use in craniofacial operations and prosthetics.

Hydroxyapatite Industry Segmentation

"Global Hydroxyapatite Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Type

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- Nano-Sized
- Micro-Sized
- Greater than Micrometer

Market Breakup by Application

- Orthopaedic
- Dental Care
- Plastic Surgery
- Others (Cosmetics, Drug Delivery, etc)

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Hydroxyapatite Market Share

Based on type, nano sized accounts for a significant share of the market

Nano-sized hydroxyapatite used for bone tissue engineering shows potential for improved cancer treatments. Its chemical structure facilitates the delivery of a diverse range of sustained and prolonged anti-cancer drugs with lesser complications.

Synthesised nanoparticles of hydroxyapatite combined with materials such as magnesium, zinc, urea, and various combinations of these materials were found to be useful as a crop fertiliser due to nanomaterial integration, serving as a novel source of nitrogen.

Based on application, orthopaedic accounts for a significant share of the global hydroxyapatite market

Hydroxyapatite is widely used in the healthcare sector for applications like femoral plugs in total hip replacement and as a coating on metal components for cementless fixations.

Applications of hydroxyapatite in plastic surgery have been increasing, with inclusion of embedded calcium hydroxyapatite microspheres with cross-linked hyaluronic acid to produce dermal fillers that promote collagen production.

Synthetic hydroxyapatite has proven effective in occluding open dentin tubules and providing better protection to sensitive teeth, serving as a biomimetic oral care agent.

Leading Hydroxyapatite Market Manufacturers

The market players are offering customised hydroxyapatite surfaces developed through sophisticated techniques.

Fluidinova, S.A.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Headquartered in Portugal, Fluidinova specialises in the manufacture and supply of synthetic nano-hydroxyapatite and tricalcium phosphate materials under the brand name nanoXIM.

SofSera Corporation

Softsera is a leading Japanese company which conducts research and development of hydroxyapatite nanoparticles in the medical, industrial, and cosmetic fields.

Berkeley Advanced Biomaterials Inc.

Founded in 1996, Berkeley is engaged in manufacturing high-quality, cost-effective, clinically relevant biologic solutions. The company also collaborates with surgeons and partners to develop cost-effective and clinically relevant biologic solutions.

Taihei Chemical Industrial Co., Ltd.

Taihei Chemical is a Japanese manufacturer of chemicals and its associated products and is the top manufacturer of phosphates in the country.

Other notable players in the market are CAM Bioceramics B.V., and SigmaGraft Biomaterials, Inc, among others.

Hydroxyapatite Market Analysis by Region

The market in Europe benefits from a rise in orthopaedic cases and increasing hydroxyapatite applications in the sector

The orthopaedic market in Europe is expected to undergo substantial growth in the upcoming years, primarily as a result of the increasing cases of orthopaedic disorders. A large patient pool is driving the demand for implant surgeries, which is anticipated to favour the hydroxyapatite market expansion in Europe.

The increasing number of dental implant procedures by private clinics as well as government hospitals in China has supported the market growth of hydroxyapatite. In the year 2022, the government of China declared that dental implant systems would be covered under a nationwide programme of volume-based procurement, accelerating the development of China's dental implant industry.

Advancements in tissue engineering, 3D printing for implants, and eco-friendly bone grafting, along with the burgeoning bone grafts and substitutes market, owing to the increasing prevalence of trauma injuries and osteoporosis, are likely to increase the demand for hydroxyapatite in Latin America.

Table of Contents:

- 1 Executive Summary
- 1.1 Market Size 2024-2025
- 1.2 Market Growth 2025(F)-2034(F)
- 1.3 Key Demand Drivers
- 1.4 Key Players and Competitive Structure
- 1.5 Industry Best Practices
- 1.6 Recent Trends and Developments

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 1.7 Industry Outlook
- 2 Market Overview and Stakeholder Insights
 - 2.1 Market Trends
 - 2.2 Key Verticals
 - 2.3 Key Regions
 - 2.4 Supplier Power
 - 2.5 Buyer Power
 - 2.6 Key Market Opportunities and Risks
 - 2.7 Key Initiatives by Stakeholders
- 3 Economic Summary
 - 3.1 GDP Outlook
 - 3.2 GDP Per Capita Growth
 - 3.3 Inflation Trends
 - 3.4 Democracy Index
 - 3.5 Gross Public Debt Ratios
 - 3.6 Balance of Payment (BoP) Position
 - 3.7 Population Outlook
 - 3.8 Urbanisation Trends
- 4 Country Risk Profiles
 - 4.1 Country Risk
 - 4.2 Business Climate
- 5 Global Hydroxyapatite Market Analysis
 - 5.1 Key Industry Highlights
 - 5.2 Global Hydroxyapatite Historical Market (2018-2024)
 - 5.3 Global Hydroxyapatite Market Forecast (2025-2034)
 - 5.4 Global Hydroxyapatite Market by Type
 - 5.4.1 Nano-Sized
 - 5.4.1.1 Historical Trend (2018-2024)
 - 5.4.1.2 Forecast Trend (2025-2034)
 - 5.4.2 Micro-Sized
 - 5.4.2.1 Historical Trend (2018-2024)
 - 5.4.2.2 Forecast Trend (2025-2034)
 - 5.4.3 Greater than Micrometer
 - 5.4.3.1 Historical Trend (2018-2024)
 - 5.4.3.2 Forecast Trend (2025-2034)
 - 5.5 Global Hydroxyapatite Market by Application
 - 5.5.1 Orthopaedic
 - 5.5.1.1 Historical Trend (2018-2024)
 - 5.5.1.2 Forecast Trend (2025-2034)
 - 5.5.2 Dental
 - 5.5.2.1 Historical Trend (2018-2024)
 - 5.5.2.2 Forecast Trend (2025-2034)
 - 5.5.3 Plastic Surgery
 - 5.5.3.1 Historical Trend (2018-2024)
 - 5.5.3.2 Forecast Trend (2025-2034)
 - 5.5.4 Others (Cosmetics, Drug Delivery, etc)
 - 5.6 Global Hydroxyapatite Market by Region

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 5.6.1 North America
 - 5.6.1.1 Historical Trend (2018-2024)
 - 5.6.1.2 Forecast Trend (2025-2034)
- 5.6.2 Europe
 - 5.6.2.1 Historical Trend (2018-2024)
 - 5.6.2.2 Forecast Trend (2025-2034)
- 5.6.3 Asia Pacific
 - 5.6.3.1 Historical Trend (2018-2024)
 - 5.6.3.2 Forecast Trend (2025-2034)
- 5.6.4 Latin America
 - 5.6.4.1 Historical Trend (2018-2024)
 - 5.6.4.2 Forecast Trend (2025-2034)
- 5.6.5 Middle East and Africa
 - 5.6.5.1 Historical Trend (2018-2024)
 - 5.6.5.2 Forecast Trend (2025-2034)
- 6 North America Hydroxyapatite Market Analysis
 - 6.1 United States of America
 - 6.1.1 Historical Trend (2018-2024)
 - 6.1.2 Forecast Trend (2025-2034)
 - 6.2 Canada
 - 6.2.1 Historical Trend (2018-2024)
 - 6.2.2 Forecast Trend (2025-2034)
- 7 Europe Hydroxyapatite Market Analysis
 - 7.1 United Kingdom
 - 7.1.1 Historical Trend (2018-2024)
 - 7.1.2 Forecast Trend (2025-2034)
 - 7.2 Germany
 - 7.2.1 Historical Trend (2018-2024)
 - 7.2.2 Forecast Trend (2025-2034)
 - 7.3 France
 - 7.3.1 Historical Trend (2018-2024)
 - 7.3.2 Forecast Trend (2025-2034)
 - 7.4 Italy
 - 7.4.1 Historical Trend (2018-2024)
 - 7.4.2 Forecast Trend (2025-2034)
 - 7.5 Others
- 8 Asia Pacific Hydroxyapatite Market Analysis
 - 8.1 China
 - 8.1.1 Historical Trend (2018-2024)
 - 8.1.2 Forecast Trend (2025-2034)
 - 8.2 Japan
 - 8.2.1 Historical Trend (2018-2024)
 - 8.2.2 Forecast Trend (2025-2034)
 - 8.3 India
 - 8.3.1 Historical Trend (2018-2024)
 - 8.3.2 Forecast Trend (2025-2034)
 - 8.4 ASEAN

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.4.1 Historical Trend (2018-2024)
- 8.4.2 Forecast Trend (2025-2034)
- 8.5 Australia
 - 8.5.1 Historical Trend (2018-2024)
 - 8.5.2 Forecast Trend (2025-2034)
- 8.6 Others
- 9 Latin America Hydroxyapatite Market Analysis
 - 9.1 Brazil
 - 9.1.1 Historical Trend (2018-2024)
 - 9.1.2 Forecast Trend (2025-2034)
 - 9.2 Argentina
 - 9.2.1 Historical Trend (2018-2024)
 - 9.2.2 Forecast Trend (2025-2034)
 - 9.3 Mexico
 - 9.3.1 Historical Trend (2018-2024)
 - 9.3.2 Forecast Trend (2025-2034)
 - 9.4 Others
- 10 Middle East and Africa Hydroxyapatite Market Analysis
 - 10.1 Saudi Arabia
 - 10.1.1 Historical Trend (2018-2024)
 - 10.1.2 Forecast Trend (2025-2034)
 - 10.2 United Arab Emirates
 - 10.2.1 Historical Trend (2018-2024)
 - 10.2.2 Forecast Trend (2025-2034)
 - 10.3 Nigeria
 - 10.3.1 Historical Trend (2018-2024)
 - 10.3.2 Forecast Trend (2025-2034)
 - 10.4 South Africa
 - 10.4.1 Historical Trend (2018-2024)
 - 10.4.2 Forecast Trend (2025-2034)
 - 10.5 Others
- 11 Market Dynamics
 - 11.1 SWOT Analysis
 - 11.1.1 Strengths
 - 11.1.2 Weaknesses
 - 11.1.3 Opportunities
 - 11.1.4 Threats
 - 11.2 Porter's Five Forces Analysis
 - 11.2.1 Supplier's Power
 - 11.2.2 Buyer's Power
 - 11.2.3 Threat of New Entrants
 - 11.2.4 Degree of Rivalry
 - 11.2.5 Threat of Substitutes
 - 11.3 Key Indicators for Demand
 - 11.4 Key Indicators for Price
- 12 Value Chain Analysis
- 13 Price Analysis

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 13.1 North America Historical Price Trends (2018-2024) & Forecast (2025-2034)
- 13.2 Europe Historical Price Trends (2018-2024) & Forecast (2025-2034)
- 13.3 Asia Pacific Historical Price Trends (2018-2024) & Forecast (2025-2034)
- 13.4 Latin America Historical Price Trends (2018-2024) & Forecast (2025-2034)
- 13.5 Middle East & Africa Historical Price Trends (2018-2024) & Forecast (2025-2034)
- 14 Competitive Landscape
 - 14.1 Supplier Selection
 - 14.2 Key Global Players
 - 14.3 Key Regional Players
 - 14.4 Key Player Strategies
 - 14.5 Company Profiles
 - 14.5.1 Fluidinova S.A.
 - 14.5.1.1 Company Overview
 - 14.5.1.2 Product Portfolio
 - 14.5.1.3 Demographic Reach and Achievements
 - 14.5.1.4 Certifications
 - 14.5.2 SofSera Corporation
 - 14.5.2.1 Company Overview
 - 14.5.2.2 Product Portfolio
 - 14.5.2.3 Demographic Reach and Achievements
 - 14.5.2.4 Certifications
 - 14.5.3 Berkeley Advanced Biomaterials, Inc.
 - 14.5.3.1 Company Overview
 - 14.5.3.2 Product Portfolio
 - 14.5.3.3 Demographic Reach and Achievements
 - 14.5.3.4 Certifications
 - 14.5.4 Taihei Chemical Industrial Co., Ltd.
 - 14.5.4.1 Company Overview
 - 14.5.4.2 Product Portfolio
 - 14.5.4.3 Demographic Reach and Achievements
 - 14.5.4.4 Certifications
 - 14.5.5 CAM Bioceramics B.V.
 - 14.5.5.1 Company Overview
 - 14.5.5.2 Product Portfolio
 - 14.5.5.3 Demographic Reach and Achievements
 - 14.5.5.4 Certifications
 - 14.5.6 SigmaGraft Biomaterials, Inc.
 - 14.5.6.1 Company Overview
 - 14.5.6.2 Product Portfolio
 - 14.5.6.3 Demographic Reach and Achievements
 - 14.5.6.4 Certifications
 - 14.5.7 Others

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Hydroxyapatite Market Report and Forecast 2025-2034

Market Report | 2025-08-11 | 151 pages | EMR Inc.

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scottss-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$3599.00
	Five User License	\$4249.00
	Corporate License	\$5099.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scottss-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-04"/>
		Signature	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scottss-international.com

www.scottss-international.com