

Hydroxyapatite Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global hydroxyapatite market size reached US\$ 2.4 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 3.4 Billion by 2028, exhibiting a growth rate (CAGR) of 5.5% during 2023-2028.

Hydroxyapatite ($\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$) is a naturally occurring inorganic calcium phosphate mineral that is synthesized from various biological sources, including mammalian bone, fish scales, and eggshells. It is similar to hard tissue in morphology and composition and has a hexagonal structure and serum calcium to phosphorous (Ca/P) ratio identical to bone apatite. Unlike calcium phosphates, hydroxyapatite can remain thermodynamically stable under different temperatures and pH levels. Apart from this, it offers high rigidity, better enamel remineralization than saliva, faster bone healing at the bone-implant interface, and compositional closeness to bone minerals. On account of these properties, hydroxyapatite is used in coatings to coarsen metal implant surfaces, bone grafts or fillers, and orthopedic and dental care devices. At present, hydroxyapatite is mainly bifurcated into nano and micro-sized types.

Hydroxyapatite Market Trends:

The increasing prevalence of various cardiovascular diseases (CVDs) and the rising need for bone grafting, transplants, and bioactive ceramics have intensified the widespread adoption of hydroxyapatite for performing diverse surgeries, which is primarily driving the market growth. In line with this, the growing consciousness amongst consumers regarding their physical appearance and the escalating instances of dermatological issues, especially amongst the geriatric population, is supplementing the product demand. Hydroxyapatite cement is biocompatible, and it can be easily molded, unlike other alloplastic materials, including high-density polyethylene and silicon; therefore, it finds extensive applications as alloplastic materials in craniofacial

surgeries and prosthetics. Additionally, the extensive utilization of nano-hydroxyapatite in drug and gene delivery, bone tissue engineering, and fillers, and as a desensitizing agent to decrease tooth sensitivity and reduce plaque levels for teeth whitening are contributing to the market growth. This is further influenced by the increasing consumer awareness regarding multiple product benefits, such as bioactivity, osteoconductive, non-toxicity, and non-inflammatory properties. Apart from this, the shifting inclination of dental product manufacturers toward hydroxyapatite as a fluoride substitute is creating a positive outlook for the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global hydroxyapatite market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type and application.

Breakup by Type:

- Nano-sized
- Micro-sized
- Greater than Micrometer

Breakup by Application:

- Orthopedic
- Dental Care
- Plastic Surgery
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
 - Australia

Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being APS Materials Inc., Berkeley Advanced Biomaterials, Bio-Rad Laboratories Inc., CAM Bioceramics B.V., Cgbio, Fluidinova S.A., HOYA Technosurgical Corporation (Hoya Corporation), Medtronic plc, Merz Pharma GmbH & Co. KGaA, SigmaGraft Biomaterials, SofSera Corporation, Taihei Chemical Industrial Co. Ltd. and Zimmer Biomet.

Key Questions Answered in This Report

1. What was the size of the global hydroxyapatite market in 2022?
2. What is the expected growth rate of the global hydroxyapatite market during 2023-2028?
3. What are the key factors driving the global hydroxyapatite market?
4. What has been the impact of COVID-19 on the global hydroxyapatite market?
5. What is the breakup of the global hydroxyapatite market based on the type?
6. What is the breakup of the global hydroxyapatite market based on the application?
7. What are the key regions in the global hydroxyapatite market?
8. Who are the key players/companies in the global hydroxyapatite market?

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