

Dental Alloys Market By Alloy Type (Gold-based, Palladium-based, Silver-based, Cobalt-based, Nickel-based, Others), By Application (Dental Restoration, Dental Implants, Partial Dentures and Bridgework, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031

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Report description:

The global dental alloys market forecast was valued at \$1.9 billion in 2021, and is projected to reach \$3.1 billion by 2031, growing at a CAGR of 4.89% from 2022 to 2031.

Gold alloy, zirconia alloy, and titanium alloys are widely used for dental restoration application. Direct and indirect dental restorative application used titanium alloys owing to its cost-effectiveness and mechanical properties. In addition, other factors such as minimal density and aesthetic look offered by titanium alloys make them widely used alloys in dental restorative application that drives the demand for dental alloys. Stainless steel alloys have gained importance in restorative materials owing to its elasticity and ductility that usually lacks in other alloys. In addition, key-players in the dental alloys market have launched innovative stainless-steel alloys for use in dental restorative application that drives the demand for dental alloys. Arch wires are another dental restorative material used. Hand drawn arch wires were predominantly used in restorative application. However, surge in demand for aesthetic look of these restorative materials has demanded for advanced dental materials in restoration application. Stainless steel orthodontic arch wires are stronger as compared with other base metals or alloys, thus making them widely used in arch wire production. Stainless steel-based arch wire restorative material offers higher stiffness and aesthetic look making it viable to be used for dental restoration application drives the demand for dental alloys. Use of palladium in dentistry application is growing and is widely used over gold for casting dental alloys. However, owing to recent studies on biological effects of palladium, the use of palladium in dental alloys is foreseen to hamper. Solubility and mechanical properties of palladium make it viable to be used for fabrication of dental alloys. In addition, palladium offers high tarnish/corrosion resistance and biocompatibility making it ideal to be used for dental restorative applications. Corrosion resistance, biocompatibility, and mechanical properties are utmost important factors considered during manufacturing of dental crowns and bridge alloys used for

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dental restoration application. All these factors collectively drives the demand of the global dental alloys market.

Gold-based dental alloys tend to lead allergic reactions such as stomatitis and oral lichenoid reactions. In addition, several studies suggest that, palladium based dental alloys also tend to cause allergic reactions over prolonged use. All these factors are anticipated to hamper the market growth Moreover, casting alloys used for intra-dental application tend to cause lichenoid allergy that in turn increases restoration cost there by hampering the market growth.

Gold metal is flexible and ductile, thus making it easy to be molded into different shapes making it viable to be used in dental applications such as dental crowns, bridges, and inlays. In addition, gold alloy can be used in conservative, restorative, and other orthodontic dentistry applications. However, pure gold metal is not suitable to be used for filling of small occlusal cavities. On the contrary, technological developments such as electroforming process has widen the use of gold alloy for cementing cavities. Tooth restoration is mainly done with help of porcelain veneered copings. Moreover, dental crowns and bridgework dentistry application is carried with help of porcelain veneered copings and electroformed gold. Majority of dentistry crowns are made up of 65 - 75% gold, thus making it largely adopted alloy for inlays and onlays cavity applications. Inlays, onlays, and partial dental crowns should offer high marginal fit and durability for long time. Gold alloys are largely preferred for production of dental crowns and other cavity lay products owing to its malleability and ductility. All these factors drive the demand for dental alloys. Full cast or partially veneered crown is mainly used for restoration of posterior teeth and gold alloy is widely used for posterior tooth restoration is driving the demand for dental alloys. Gold alloys offer properties such as high sag and compatible resistance with porcelains making it suitable to be used in fixed crown and long span bridge applications. This factor is anticipated to offer new growth opportunities in the global market.□

The dental alloys market is segmented on the basis of alloy type, application, and region. On the basis of alloy type, the market is categorized into gold-based, palladium-based, silver-based, cobalt-based, and others. By application, the market is classified into dental restoration, dental implants, partial dentures & bridgework, and others. Region wise, the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

The global dental alloys market profiles leading players that include□Alba Dent Inc., Argen Corporation, Aurident Inc., 88Dent, Dentsply Sirona, Heraeus Holding, Ivoclar Vivadent, Jensen Dental, Kennametal Inc., Kerr Corporation, Kulzer GmbH, Kuraray Europe GmbH, Sterngold Dental LLC, Success Dental Co., and Yamamoto Precious Metal Co. Ltd.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the dental alloys market analysis from 2021 to 2031 to identify the prevailing dental alloys market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the dental alloys market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global dental alloys market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Alloy Type

- Gold-based
- Palladium-based
- Silver-based
- Cobalt-based
- Nickel-based
- Others

By Application

- Dental Restoration

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- Dental Implants
- Partial Dentures and Bridgework
- Others
- By Region
- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- UK
- France
- Spain
- Italy
- Rest Of Europe
- Asia-Pacific
- China
- India
- Japan
- South Korea
- Australia
- Rest Of Asia-Pacific
- LAMEA
- Brazil
- Saudi Arabia
- South Africa
- Rest Of LAMEA
- Key Market Players
- Aalba Dent Inc.
- Argen Corporation
- Aurident Inc.
- 88Dent
- Dentsply Sirona
- Heraeus Holding
- Ivoclar Vivadent
- Jensen Dental
- Kennametal Inc.
- Kerr Corporation
- Kulzer GmbH
- Kuraray Europe GmbH
- Sterngold Dental LLC
- Success Dental Co.
- Yamamoto Precious Metal Co. Ltd.

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