

Dental Materials Manufacturing Business.

Production of Alginate, GI Cement, Composite Resin and Polycarboxylate Cement

[NPCS/4994/23233]



Introduction

Dental materials are specially fabricated materials, designed for use in dentistry. There are many different types of dental material, and their characteristics vary according to their intended purpose. Examples include temporary dressings, dental restorations (fillings, crowns, and bridges), endodontic materials (used in root canal therapy), impression materials, prosthetic materials (dentures), dental implants, and many others.





Alginate

Alginate is a powder that contains potassium alginate, calcium sulfate and a few other elements derived from brown algae and kelp. Combined with water, it turns into a gel that sets firmly enough to use as a mold. The material comes in a few different formulas. The setting time varies depending on the temperature and the amount of water used.





Global Alginate Market is segmented on the basis of form as potassium alginate, sodium alginate, and calcium alginate. Among all the forms, the sodium alginate segment is lately covering the largest share in the market, the reason being increased applications in food and textile printing sectors. Alginate is the colloidal material that is generally obtained from natural seaweeds. It can also be recognized as a kind of salt of alginic acid. It is deployed in the form of ammoniumalginate, calcium, as well as sodium specifically for dental impression materials.

Alginate Market is segmented on the basis of geographical location as North America, Europe, China, Japan, Southeast Asia, and India. As far as the geographical region is concerned, Asia Pacific is currently leading the market and it is simultaneously accounting for the largest share in the market, the reason being industrialization, urbanization, growing population, mounting demand across various sectors, increasing awareness among the masses, and rise in the investments. On the other hand, Europe is also witnessing a robust growth due to the emergence of leading manufacturers in the particular region.



GI Cement

A glass ionomer cement is a dental restorative material used in dentistry as a filling material and luting cement, including for orthodontic bracket attachment. Glass-ionomer cements are based on the reaction of silicate glass-powder (calciumaluminofluorosilicate glass and polyacrylic acid, an ionomer. Occasionally water is used instead of an acid, altering the properties of the material and its uses. This reaction produces a powdered cement of glass particles surrounded by matrix of fluoride elements and is known chemically as glass polyalkenoate. Glass-ionomer based hybrids incorporate another dental material, for example resin-modified glass ionomer cements (RMGICs) and compomers (or modified composites).



Dental cement is a type of dental material that can be used for different purposes. Some cements are used to restore dental work, while others are used to create original dental work. Some are permanent, while others are temporary. There are five types of dental cement: zinc-oxide eugenol, zinc phosphate, polycarboxylate, glass ionomer and composite resin.

The global Glass-ionomer Cement market will reach Million USD in 2017.



Composite Resins

Dental composite resins (better referred to as "resin-based composites" or simply "filled resins") are types of synthetic resins which are used in dentistry as restorative material or adhesives. Dental composite resins have certain properties that will benefit patients according to the patient's cavity. It has a micro-mechanic property that makes composite more effective for filling small cavities where amalgam fillings are not as effective and could therefore fall out (due to the macro-mechanic property of amalgam).





The global composite filling market in dental restoration is projected to grow at a healthy CAGR of 4.8% over the next five years to reach US\$ 509.1 million in 2022.

Aging population, increasing awareness for oral hygiene causing worldwide rise in dental check-ups, advantages of composite resin over amalgam in toothfilling, and increasing demand for dental aesthetics are the major growth drivers of the composite filling market in dental restoration.

The global composite filling market in dental restoration is segmented based on material type as nanohybrid, microhybrid, microfilled, nanofilled and other composite fillings. Nanohybrid and microhybrid composites currently dominate the global composite filling market in dental restoration, driven by a wide array of factors including ease of application, reduced sitting period, and easy availability. These materials are also projected to witness high growth rates during the forecast period, driven by increasing demand from the dentists and dental care organizations.



Market Outlook

The dental market is one of the most attractive segments of the healthcare industry. It incorporates diagnosis, treatment & prevention of diseases of the teeth, gums and supporting bones. Dental industry is rapidly getting more digital. With an ever-increasing ensemble of digital technologies, digital treatment is evolving at fast pace in various aspects. 99% of the dental market in India is private. Most practices in India are solo with multi-operations.

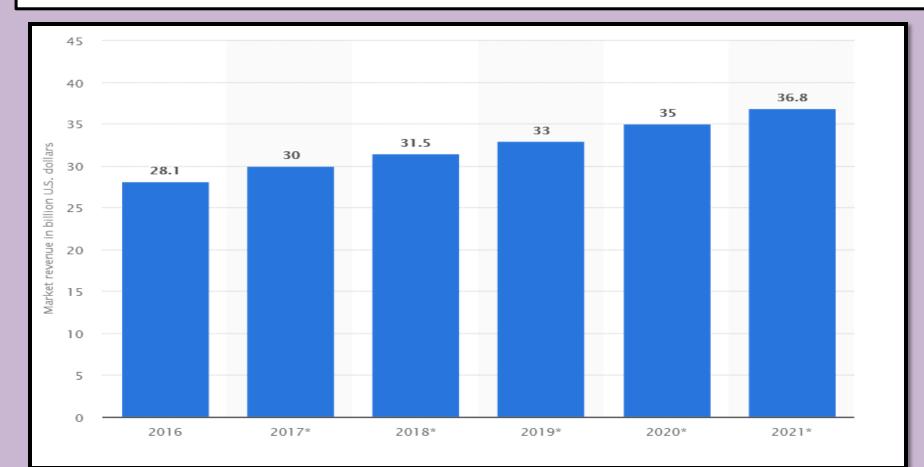
Dental supplies account for the largest share of the overall dental market comprising consumables and implants, equipment, and services. The segment includes products used in dental procedures such as amalgams and alloys; prosthetic and aesthetic supplies, orthodontic supplies, endodontic supplies, dental implants and infection control products.

npcs

Currently, North America dominates the global market, owing to the greater awareness among the population, followed by Europe. The untapped markets of Asia-Pacific and Latin America hold promise as future market leaders. This is due to the increase in the disposable incomes in the Asia-Pacific region and the large patient population.



Estimated Global Dental Market from 2016 to 2021 (in Billion U.S. Dollars)





This escalation is developing the need to analyze, review and forecast the growth of the dental devices market. Owing to the rapid evolution of the market in the use of laser technology, medical device companies that are able to launch new innovative equipment will be rewarded with huge benefits.

Global Dental Market is projected to cross US\$ 60 Billion mark by the year 2024 due to growing demand for better oral hygiene services and rising disposable income of people globally. Mounting awareness of the importance oral hygiene i.e. keeping the mouth and teeth clean; and can prevent cavities, gingivitis (inflammation of the gums), and bad breath is one of the major factors which helps to reach the global dental market to its new glory in the coming future.



Also, factors like increasing disposable income of the people, rising demand for cosmetic dentistry, changing lifestyles, technological advancements, rising geriatric population and the participation of health insurer reimbursements than it has historically, are expected to drive the global dental market in the forthcoming years.

The global dental market has been increasing at a stable growth rate. This is attributable to factors such as growing dental implant volume, growing healthcare expenditure, rapid rise in the number of dentists and increasing aging population coupled with increasing demand for oral care and technological advancement.



The Indian dental devices market is currently estimated to be worth USD 0.260 billion for the year 2014 and is expected to grow at a CAGR of 6.79% for the duration 2016-2021. The dental market is expected to have a growth rate of 20-30 %, with investment groups building multispecialty hospitals offering general dentistry and specialist treatments.



By 2014 the Indian dental healthcare industry is expected to reach US\$ 116.43 million growing 6 percent annually, the dental care services market US\$ 1.16 billion and oral care market US\$ 1.8 billion. Indian dental care services market, constituted by dentists and dental ancillary services, was estimated at US\$ 660 million in 2009, dental equipments & appliances market at US\$ 87million and dental oral care market was estimated at US\$ 1 billion. The potential size of India's dental market is vast and is expected to become one of the largest single country markets for overseas dental device and materials exporters.



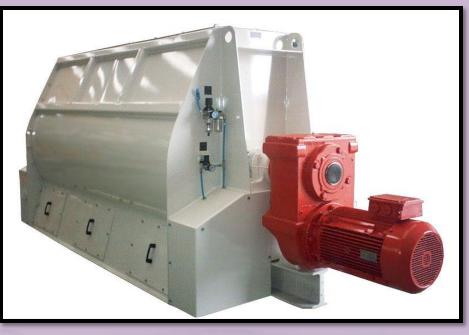
Global Dental Materials Market is expected to grow at a CAGR of 7.2% during the forecast period to reach USD 7,245.5 million by 2022. The growth of this market is mainly attributed to the rising geriatric and edentulous population, growing dental tourism for advanced dental solutions, increasing disposable incomes in the developing countries, growing dental clinics with advance dental treatments, and increasing demand of cosmetic dentistry. Also, the popularity of tooth-colored restorations and minimally invasive treatments has increased tremendously in the past few years; these trends are expected to further drive the demand for innovative and technologically advanced dental materials.



Machinery Photographs



Grinder



Mixer





Air Compressor



Powder Grinder



| PROJECT AT A GLANCE | | | | | | | (` in lacs) |
|-----------------------------------|----------|----------|-------|--------------------------------|----------|--------------|-------------|
| 0 7200 | F PROJE | ^т | | ΜΕΛΝΟ | | | |
| 0310 | MEANS | | | | | | |
| Particulars | Existing | Proposed | Total | Particulars | Existing | Propose d | Total |
| Land & Site Development Exp. | 0.00 | 0.00 | 0.00 | Capital | 0.00 | 18.00 | 18.00 |
| Buildings | 0.00 | 0.00 | | Share Premium | 0.00 | 0.00 | 0.00 |
| Plant & Machineries | 0.00 | 26.90 | | Other Type Share Capital | 0.00 | 0.00 | |
| Motor Vehicles | 0.00 | 6.00 | 6.00 | Reserves & Surplus | 0.00 | 0.00 | 0.00 |
| Office Automation Equipments | 0.00 | 9.70 | 9.70 | Cash Subsidy | 0.00 | 0.00 | 0.00 |
| Technical Knowhow Fees & Exp. | 0.00 | 10.00 | 10.00 | Internal Cash Accruals | 0.00 | 0.00 | 0.00 |
| Franchise & Other Deposits | 0.00 | 0.00 | | Long/Medium Term Borrowings | 0.00 | 53.99 | 53.99 |
| Preliminary& Pre-operative Exp | 0.00 | 2.00 | 2.00 | Debentures / Bonds | 0.00 | 0.00 | 0.00 |
| Provision for Contingencies | 0.00 | 2.50 | | Unsecured Loans/Deposits | 0.00 | 0.00 | 0.00 |
| Margin Money - Working Capital | 0.00 | 14.89 | 14.89 | | | | |
| TOTAL | 0.00 | 71.99 | 71.99 | TOTAL | 0.00 | 71.99 | 71.99 |



| Year | Annu | alised | Book Value | Debt | Divide nd | | ined ings | Payou t | Probab le Market Price | Ratio | Yield Price/ Book Value |
|------|----------|--------|---------------|-------|--------------|-----------|--------------|------------|---------------------------------|----------------|----------------------------|
| | EPS CEPS | | Per Share | | Per Share | Per Share | | | | No.of Times | |
| | Ň | ` | `` | ` | Ň | % | ` | % | ` | | % |
| 1- | | | | | | 100.0 | | | | | |
| 2 | 4.27 | 8.52 | 14.27 | 24.00 | 0.00 | 0 | 4.27 | 0.00 | 4.27 | 1.00 | 0.00 |
| | | | | | | 100.0 | | | | | |
| 2-3 | 9.17 | 12.88 | 23.45 | 18.00 | 0.00 | 0 | 9.17 | 0.00 | 9.17 | 1.00 | 0.00 |
| | | | | | | 100.0 | | | | | |
| 3-4 | 13.71 | 16.96 | 37.15 | 12.00 | 0.00 | 0 | 13.71 | 0.00 | 13.71 | 1.00 | 0.00 |
| | | | | | | 100.0 | | | | | |
| 4-5 | 17.79 | 20.65 | 54.94 | 6.00 | 0.00 | 0 | 17.79 | 0.00 | 17.79 | 1.00 | 0.00 |
| | | | | | | 100.0 | | | | | |
| 5-6 | 21.35 | 23.89 | 76.29 | 0.00 | 0.00 | 0 | 21.35 | 0.00 | 21.35 | 1.00 | 0.00 |



| Yea r | D. S. C. R. | | - | ' Equity as- Equity | Net | n on | | Profita | bility F | ₹atio | | S | Curre nt Ratio | |
|-------------|-------------------|----------------|---------------|---------------------------|-----------------|------|---|------------|----------|-------|-------------------------|------------|----------------------|------|
| | | Cumula tive | a Over all | | | | | GPM | PBT | PAT | Net Contri bution | | | |
| | (Number of times) | | mes) | `` | nber of nes) | % | % | % | % | % | | % | | |
| Initi al | | | | 3.00 | 3.00 | | | | | | | | | |
| 1- 2 | 1.27 | 1.27 | | 1.68 | 1.68 | 2.73 | | 25.98 % | 5.64% | | 175.1 5 2 | 98.60 % |) 2.05 | 1.23 |
| 2-3 | 1.80 | 1.52 | | 0.77 | 0.77 | 1.50 | | 30.30 % | 11.98% | | 185.4 9 | 89.52 % | 2.12 | 1.50 |
| 3-4 | 2.39 | 1.79 | 2.34 | 0.32 | 0.32 | 0.85 | | 33.07 % | 16.18% | | 211.5 4 | 89.33 % | 3 2.03 | 1.89 |
| 4-5 | 3.04 | 2.06 | | 0.11 | 0.11 | 0.50 | | 34.77 % | 18.89% | | 237.5 9 | 89.18 % | 3 1.87 | 2.35 |
| 5-6 | 3.77 | 2.34 | | 0.00 | 0.00 | 0.31 | | | 20.52% | | 263.6 4 | 89.07 % | , 1.69 | 3.55 |

(npc

BEP

| BEP - Maximum Utilisation Year | 5 |
|---|-----------|
| Cash BEP (% of Installed Capacity) | 74.04% |
| Total BEP (% of Installed Capacity) | 75.77% |
| IRR, PAYBACK and FACR | |
| Internal Rate of Return (In %age) | 33.56% |
| | 2 Years 3 |
| Payback Period of the Project is (In Years) | Months |
| Fixed Assets Coverage Ratio (No. of times) | 12.341 |



Major Queries/Questions Answered in the Report?

- 1. What is Dental Materials Manufacturing industry?
- 2. How has the Dental Materials Manufacturing industry performed so far and how will it perform in the coming years ?
- 3. What is the Project Feasibility of Dental Materials Manufacturing Plant ?

4. What are the requirements of Working Capital for setting up Dental Materials Manufacturing plant ?



5. What is the structure of the Dental Materials Manufacturing Business and who are the key/major players ?

- 6. What is the total project cost for setting up Dental Materials Manufacturing Business?
- 7. What are the operating costs for setting up Dental Materials Manufacturing plant ?
- 8. What are the machinery and equipment requirements for setting up Dental Materials Manufacturing plant ?



9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Dental Materials Manufacturing plant?

- **10.** What are the requirements of raw material for setting up Dental Materials Manufacturing plant ?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Dental Materials Manufacturing Business?
- 12. What is the Manufacturing Process of Dental Materials (Alginate, GI Cement, Composite Resin Poly Carboxylate Cement)?



13. What is the total size of land required for setting up Dental Materials Manufacturing plant ?

14. What will be the income and expenditures for Dental Materials Manufacturing Business?

15. What are the Projected Balance Sheets of Dental Materials Manufacturing plant ?

16. What are the requirement of utilities and overheads for setting up Dental Materials Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up Dental Materials Manufacturing Business?



18. What are the Personnel (Manpower) Requirements for setting up Dental Materials Manufacturing Business?

- **19.** What are Statistics of Import & Export for Dental Materials?
- 20. What is the time required to break-even of Dental Materials Manufacturing Business?
- 21.What is the Break-Even Analysis of Dental Materials Manufacturing plant?

22.What are the Project financials of Dental Materials Manufacturing Business?



- 23. What are the Profitability Ratios of Dental Materials Manufacturing Project?
- 24. What is the Sensitivity Analysis-Price/Volume of Dental Materials Manufacturing plant?
- 25. What are the Projected Pay-Back Period and IRR of Dental Materials Manufacturing plant?
- 26. What is the Process Flow Sheet Diagram of Dental Materials Manufacturing project?



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Reasons for Buying our Report:

- This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product
- This report provides vital information on the product like it's characteristics and segmentation
- This report helps you market and place the product correctly by

identifying the target customer group of the product



• This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials

- The report provides a glimpse of government regulations applicable on the industry
- The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions



Our Approach:

• Our research reports broadly cover Indian markets, present analysis,

outlook and forecast for a period of five years.

- The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players
- We use reliable sources of information and databases. And information from such sources is processed by us and included in the report



Scope of the Report

The report titled "Market Survey cum Detailed Techno Economic Feasibility Report on Dental Products (Alginate, GI Cement, Composite Resin Poly Carboxylate Cement) ." provides an insight into Dental **Products** market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Dental Products project. The report assesses the market sizing and growth of the Indian Dental Products Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:



- Good Present/Future Demand
- Export-Import Market Potential
- Raw Material & Manpower Availability
- Project Costs and Payback Period

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Dental Products sector in India along with its business prospects. Through this report we have identified Dental Products project as a lucrative investment avenue.



Tags

Dental Material Manufacture, Dental Materials, Dental Products, Production of Dental Products, Manufacturing of Dental Products, Dental Manufacturing, Dental Products Manufacture, Dental Production, Dental Laboratory Products, Dental Cements, Dental Products Manufacturing, Dental Product Manufacturing Company, Dental Pharmaceutical Company, Dental Products Manufacture, Dental Equipment Manufacture, Dental Industry, Alginate, GI Cement, Composite Resin Poly Carboxylate Cement, Formulation of Alginate Dental Impression, Dental Alginate Impression Material Composition, Dental Alginates, Glass Ionomer Cement, Dental Material, Dental Glass Ionomer Cements, Dental Glass Ionomer Cement Composition, Composite Resin, Dental Composites, Dental Composite Pdf, Dental Composite Resin, Polycarboxylate Cement, Polycarboxylate Dental Cement, Project Report on Dental Products Manufacturing Industry, Detailed Project Report on Dental Glass Ionomer Cement Composition, Project Report on Dental Products Manufacture, Pre-Investment Feasibility Study on Formulation of Alginate Dental Impression, Techno-Economic feasibility study on Dental Products Manufacturing, Feasibility report on Dental Products Manufacture, Free Project Profile on Dental Products Production, Project profile on Formulation of Alginate Dental Impression, Download free project profile on Dental Products Production



Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Dental Materials Manufacturing Business. Production of Alginate, GI Cement, Composite Resin and Polycarboxylate Cement

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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.



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The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects......<u>Read more</u>



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- One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services
- We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad



We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.



We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.



What do we offer?

- Project Identification
- Detailed Project Reports/Pre-feasibility Reports
- Market Research Reports
- Business Plan
- Technology Books and Directory
- Industry Trend
- Databases on CD-ROM
- Laboratory Testing Services
- Turnkey Project Consultancy/Solutions
- Entrepreneur India (An Industrial Monthly Journal)



How are we different ?

- We have two decades long experience in project consultancy and market research field
- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers, from individual entrepreneurs to Corporations and Foreign Investors

www.entrepreneurindia.co

• We use authentic & reliable sources to ensure business precision



Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation



Contact us

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