3D Printing Materials Market (2013 - 2019): By Type [Plastics (PLA, ABS, PVA), Metals (Titanium, Steel, Silver), Ceramics]; By Form (Filament, Powder, Liquid); Application (Aerospace, Automotive, Industrial, Healthcare)

Description: 3D printing or additive manufacturing (AM) is used to convert a 3D model available with us into a three dimensional object through additive processes in which successive layers of material are laid down under artificial intelligence and the material used for this purpose is called 3D printing material. 3D Printers can use a wide range of materials, including plastics, resins, metals, ceramics and more. The most popular material is plastic, and most of the home / desktop style printers print objects using plastic, however some of the higher-end printers are capable of printing using many different materials. Currently printers support up to 107 materials.

Currently, plastics are the most widely used materials in additive manufacturing, and the important ones are ABS (acrylonitrile butadiene styrene), PLA (polylactic acid), PVA, PC, and SOFT PLA. With the invention of home 3D printers that use plastic filaments to 3D print any object, the demand for these materials has grown aggressively and is expected to continue in the next five years. Metals are the strongest materials available in the market, but are extremely expensive. Metals include steel, titanium, aluminum, copper, silver, gold, nickel, cobalt, etc. Metal 3D printing is a costly method as the metal printers use laser methods to manufacture any objects. Hence, metal materials are limited to high-end applications. Ceramics and Others are affordable materials that will garner a high demand in future. A range of other manufacturing materials can be used for 3D printing that includes nylon, glass-filled polyamide, epoxy resins, wax, and photopolymers.

Contents:
1. Global 3dp Materials - Market Overview
   1.1 Introduction
   1.2 Stakeholders
2. Executive Summary
   3.1 Market Share Analysis
   3.2 Comparative Analysis
      3.2.1 Product Benchmarking
   3.3 Patent Analysis
3.4 Top 5 Financials Analysis
4. 3D Printing Materials Market - Market Forces
   4.1 Market Drivers
      4.1.1 Increased Use Of 3d Printers And Its Materials In Household Applications
      4.1.2 Increasing Demand In Medical Industry
      4.1.3 Increasing Investments In R&D Department Of 3d Printing Industry
      4.1.4 Increasing Demand In Architectural Industry
   4.2 Market Constraints
      4.2.1 Limited Types Of Materials Are Accessible By A Printer
      4.2.2 High Costs Of Printers And Materials For Professional And Industrial Applications
   4.3 Market Challenges
      4.3.1 Sustainability Of New Entrants
      4.3.2 Supply Of Low Cost Metal Powders For Aerospace And Automotive Industrial Applications
   4.4 Attractiveness Of The 3dp Materials
      4.4.1 Power Of Suppliers
      4.4.2 Power Of Customers
      4.4.3 Threat Of New Entrants
         4.4.3.1 By Players
         4.4.3.2 By Materials
      4.4.4 Threat Of Substitution
      4.4.5 Degree Of Competition
4.5 Global 3dp Materials Market - Strategic Analysis
5. Value Chain Analysis
5.2 Pricing Analysis
5.3 Opportunities Analysis
5.4 Market Life Cycle Analysis
5.5 Supplier And Distributor Analysis
6. 3D Printing Materials Market, By Type
   6.1 Introduction
   6.2 Plastics
      6.2.1 Polylactic Acid (PLA)
      6.2.2 Acrylonitrile Butadiene Styrene (ABS)
      6.2.3 Polyvinyl Alcohol (PVA)
      6.2.4 Others
   6.3 Metals
      6.3.1 Titanium
      6.3.2 Stainless Steel
      6.3.3 Silver
      6.3.4 Others
   6.4 Ceramics
      6.4.1 Glass
      6.4.2 Silica
      6.4.3 Porcelain
      6.4.4 Others
   6.5 Others
      6.5.1 Chocolate
      6.5.2 Paper
      6.5.3 Biomaterials
7. 3D Printing Materials Market, By Class
   7.1 Introduction
   7.2 Consumer
   7.3 Professional
   7.4 Industrial
8. 3D Printing Materials Market, By Form
   8.1 Introduction
   8.2 Filament
   8.3 Powder
   8.4 Liquids
9. 3D Printing Materials Market, By Application
   9.1 Introduction
   9.2 Consumer
   9.3 Aerospace & Defense
   9.4 Automotive
   9.5 Medical & Dental
   9.6 Education
   9.7 Others
10. 3D Printing Materials Market, By Geography
    10.1 Introduction
    10.2 North America
       10.2.1 U.S.
       10.2.2 Canada
       10.2.3 Others
    10.3 Asia-Pacific
       10.3.1 China
       10.3.2 Japan
       10.3.3 Others
    10.4 Europe
       10.4.1 Germany
       10.4.2 U.K.
       10.4.3 Others
    10.5 Rest Of The World
11. Market Entropy
   11.1 Product Launches
   11.2 M&As, Collaborations, JVs And Partnership
12. Company Profiles
    12.1 3D Systems
12.2 Stratasys Ltd.
12.3 Arcam
12.4 Envisiontec Gmbh
12.5 Exone Gmbh
12.6 Materialise N.V.
12.7 Voxeljet Ag
12.8 Eos Gmbh Electro Optical Systems
12.9 Formlabs
12.10 Hoganas AB
12.11 Madesolid
12.12 Oxford Performance Materials
12.13 Sculpteo, INC.
12.14 Taulman 3D
12.15 Tethon 3D
12.16 Tinkerine
12.17 Shapeways
13. Acronyms
14. Research Methodology

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