

Fullerene Market By Product Type (C60, C70, C76, Others) , By Form (Buckminsterfullerene, Endohedral Fullerene, Herbal fullerenes, Buckyball Clusters, Nanotubes, Megatubes, Others) By End-User Industry (Medical, Aerospace and Defense, Electrical and Electronics, Cosmetics, Pharmaceuticals, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2031

Market Report | 2024-07-01 | 300 pages | Allied Market Research

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Report description:

Fullerene Market

The fullerene market was valued at \$467.5 million in 2023 and is projected to reach \$754.5 million by 2031, growing at a CAGR of 6.2% from 2024 to 2031.

Fullerene is a carbon molecule that exists in different structures such as ellipsoids, hollow spheres, or tubes. Atoms in a fullerene are organized in pentagonal & hexagonal arrangements, offering high stability to the structure by making them resistant to high temperatures and pressures. The key features of fullerenes are that they conduct electricity, exhibit superconductivity, and absorb & emit light. They are utilized in a variety of applications, including drug delivery systems, nanotechnology, and catalysts. Constant expansion of the medical and pharmaceutical industries is a key driver of the fullerene market. The compound finds wide applicability in drug delivery systems due to its hollow, cage-like structure. In addition, the demand for fullerene is rising as an optical limiter, hence augmenting the growth of the market. In recent times, the deployment of functionalized fullerenes for the treatment of diseases generated from oxidative stress, such as neurodegenerative diseases and cancer, is trending in the medical sector as they possess antioxidant properties. Moreover, fullerene-based nanomaterials are considerably being used in tissue engineering and regenerative medicine.

However, the manufacturing of fullerenes is a costly and intricate process, which slows down the growth of the market. Moreover, the potential toxicity of fullerenes limits their utility, thereby restraining market development. On the contrary, the continuous R&D efforts exploring the prospectives of fullerenes are anticipated to present lucrative opportunities for the market. For instance,

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fullerene-based biosensors are being developed for the detection of pollutants, biomolecules, and gases with high selectivity & sensitivity. Furthermore, to accelerate certain chemical reactions, fullerenes are being employed for the creation of catalysts owing to their intensive selectivity and absorptivity.[]

Segment Review[]

The fullerene market is segmented into product type, form, end-user industry, and region. On the basis of product type, the market is divided into C60, C70, C76, and others. Depending on form, it is classified into buckminsterfullerene, endohedral fullerene, herbal fullerenes, buckyball clusters, nanotubes, megatubes, and others. By end-user industry, it is categorized into medical, aerospace & defense, electrical & electronics, cosmetics, pharmaceuticals, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.[]

Key Findings[]

On the basis of product type, the C60 segment is projected to maintain its dominance by 2031.[]

Depending on form, the buckyball clusters segment is expected to garner a high market share during the forecast period.[]

By end-user industry, the medical segment is anticipated to lead the market during the forecast period.[]

Region wise, Asia-Pacific is predicted to be the highest revenue generator by 2031.[]

Competition Analysis[]

The major players operating in the global fullerene market include NANO-C, Mitsubishi Chemical Holdings, IoLiTec Ionic Liquids Technologies GmbH, NetScientific PLC, SES Research Inc., Nanografi Nano technology, Luna Industries Incorporated, Solenne BV, BuckyLabs HealthSpan Plus Labs, and Neotech Products Pvt. Ltd. These players have adopted various key developmental strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the market.[]

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- Product Consumption Analysis
- SWOT Analysis
- Volume Market Size and Forecast

Key Market Segments

By Product Type

- C60
- C70
- C76
- Others

By Form

- Buckminsterfullerene
- Endohedral Fullerene
- Herbal fullerenes
- Buckyball Clusters
- Nanotubes
- Megatubes
- Others

By End-User Industry

- Medical
- Aerospace and Defense
- Electrical and Electronics
- Cosmetics
- Pharmaceuticals
- Others

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- France
- Germany
- Italy
- Spain
- UK
- Rest of Europe
- Asia-Pacific
- China
- Japan

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- India
- South Korea
- Australia
- Rest of Asia-Pacific
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- Brazil
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- Rest of LAMEA
- Key Market Players
- NANO-C
- Mitsubishi Chemical Holdings
- IoLiTec Ionic Liquids Technologies GmbH
- NetScientific PLC
- SES Research Inc.
- Nanografi Nano technology
- Luna Industries Incorporated
- Solenne BV
- BuckyLabs HealthSpan Plus Labs
- Neotech Products Pvt. Ltd

Table of Contents:

CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
 - 1.4.1. Primary Research
 - 1.4.2. Secondary Research
 - 1.4.3. Analyst Tools and Models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

CHAPTER 3: MARKET LANDSCAPE

- 3.1. Market Definition and Scope
- 3.2. Key Findings
 - 3.2.1. Top Investment Pockets
 - 3.2.2. Top Winning Strategies
- 3.3. Porter's Five Forces Analysis
 - 3.3.1. Bargaining Power of Suppliers
 - 3.3.2. Threat of New Entrants
 - 3.3.3. Threat of Substitutes
 - 3.3.4. Competitive Rivalry
 - 3.3.5. Bargaining Power among Buyers
- 3.4. Market Dynamics
 - 3.4.1. Drivers
 - 3.4.2. Restraints
 - 3.4.3. Opportunities

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CHAPTER 4: ANGIOPLASTY BALLOONS MARKET, BY TYPE

4.1. Market Overview

4.1.1 Market Size and Forecast, By Type

4.2. Normal Balloons

4.2.1. Key Market Trends, Growth Factors and Opportunities

4.2.2. Market Size and Forecast, By Region

4.2.3. Market Share Analysis, By Country

4.3. Drug Eluting Balloons

4.3.1. Key Market Trends, Growth Factors and Opportunities

4.3.2. Market Size and Forecast, By Region

4.3.3. Market Share Analysis, By Country

4.4. Cutting Balloons

4.4.1. Key Market Trends, Growth Factors and Opportunities

4.4.2. Market Size and Forecast, By Region

4.4.3. Market Share Analysis, By Country

4.5. Scoring Balloons

4.5.1. Key Market Trends, Growth Factors and Opportunities

4.5.2. Market Size and Forecast, By Region

4.5.3. Market Share Analysis, By Country

CHAPTER 5: ANGIOPLASTY BALLOONS MARKET, BY APPLICATION

5.1. Market Overview

5.1.1 Market Size and Forecast, By Application

5.2. Peripheral

5.2.1. Key Market Trends, Growth Factors and Opportunities

5.2.2. Market Size and Forecast, By Region

5.2.3. Market Share Analysis, By Country

5.3. Coronary

5.3.1. Key Market Trends, Growth Factors and Opportunities

5.3.2. Market Size and Forecast, By Region

5.3.3. Market Share Analysis, By Country

CHAPTER 6: ANGIOPLASTY BALLOONS MARKET, BY END USER

6.1. Market Overview

6.1.1 Market Size and Forecast, By End User

6.2. ASCs

6.2.1. Key Market Trends, Growth Factors and Opportunities

6.2.2. Market Size and Forecast, By Region

6.2.3. Market Share Analysis, By Country

6.3. Hospitals

6.3.1. Key Market Trends, Growth Factors and Opportunities

6.3.2. Market Size and Forecast, By Region

6.3.3. Market Share Analysis, By Country

6.4. Cath Labs

6.4.1. Key Market Trends, Growth Factors and Opportunities

6.4.2. Market Size and Forecast, By Region

6.4.3. Market Share Analysis, By Country

CHAPTER 7: ANGIOPLASTY BALLOONS MARKET, BY REGION

7.1. Market Overview

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- 7.1.1 Market Size and Forecast, By Region
- 7.2. North America
 - 7.2.1. Key Market Trends and Opportunities
 - 7.2.2. Market Size and Forecast, By Type
 - 7.2.3. Market Size and Forecast, By Application
 - 7.2.4. Market Size and Forecast, By End User
 - 7.2.5. Market Size and Forecast, By Country
 - 7.2.6. U.S. Angioplasty Balloons Market
 - 7.2.6.1. Market Size and Forecast, By Type
 - 7.2.6.2. Market Size and Forecast, By Application
 - 7.2.6.3. Market Size and Forecast, By End User
 - 7.2.7. Canada Angioplasty Balloons Market
 - 7.2.7.1. Market Size and Forecast, By Type
 - 7.2.7.2. Market Size and Forecast, By Application
 - 7.2.7.3. Market Size and Forecast, By End User
 - 7.2.8. Mexico Angioplasty Balloons Market
 - 7.2.8.1. Market Size and Forecast, By Type
 - 7.2.8.2. Market Size and Forecast, By Application
 - 7.2.8.3. Market Size and Forecast, By End User
- 7.3. Europe
 - 7.3.1. Key Market Trends and Opportunities
 - 7.3.2. Market Size and Forecast, By Type
 - 7.3.3. Market Size and Forecast, By Application
 - 7.3.4. Market Size and Forecast, By End User
 - 7.3.5. Market Size and Forecast, By Country
 - 7.3.6. France Angioplasty Balloons Market
 - 7.3.6.1. Market Size and Forecast, By Type
 - 7.3.6.2. Market Size and Forecast, By Application
 - 7.3.6.3. Market Size and Forecast, By End User
 - 7.3.7. Germany Angioplasty Balloons Market
 - 7.3.7.1. Market Size and Forecast, By Type
 - 7.3.7.2. Market Size and Forecast, By Application
 - 7.3.7.3. Market Size and Forecast, By End User
 - 7.3.8. Italy Angioplasty Balloons Market
 - 7.3.8.1. Market Size and Forecast, By Type
 - 7.3.8.2. Market Size and Forecast, By Application
 - 7.3.8.3. Market Size and Forecast, By End User
 - 7.3.9. Spain Angioplasty Balloons Market
 - 7.3.9.1. Market Size and Forecast, By Type
 - 7.3.9.2. Market Size and Forecast, By Application
 - 7.3.9.3. Market Size and Forecast, By End User
 - 7.3.10. UK Angioplasty Balloons Market
 - 7.3.10.1. Market Size and Forecast, By Type
 - 7.3.10.2. Market Size and Forecast, By Application
 - 7.3.10.3. Market Size and Forecast, By End User
 - 7.3.11. Rest of Europe Angioplasty Balloons Market
 - 7.3.11.1. Market Size and Forecast, By Type

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- 7.3.11.2. Market Size and Forecast, By Application
- 7.3.11.3. Market Size and Forecast, By End User
- 7.4. Asia-Pacific
 - 7.4.1. Key Market Trends and Opportunities
 - 7.4.2. Market Size and Forecast, By Type
 - 7.4.3. Market Size and Forecast, By Application
 - 7.4.4. Market Size and Forecast, By End User
 - 7.4.5. Market Size and Forecast, By Country
 - 7.4.6. China Angioplasty Balloons Market
 - 7.4.6.1. Market Size and Forecast, By Type
 - 7.4.6.2. Market Size and Forecast, By Application
 - 7.4.6.3. Market Size and Forecast, By End User
 - 7.4.7. Japan Angioplasty Balloons Market
 - 7.4.7.1. Market Size and Forecast, By Type
 - 7.4.7.2. Market Size and Forecast, By Application
 - 7.4.7.3. Market Size and Forecast, By End User
 - 7.4.8. India Angioplasty Balloons Market
 - 7.4.8.1. Market Size and Forecast, By Type
 - 7.4.8.2. Market Size and Forecast, By Application
 - 7.4.8.3. Market Size and Forecast, By End User
 - 7.4.9. South Korea Angioplasty Balloons Market
 - 7.4.9.1. Market Size and Forecast, By Type
 - 7.4.9.2. Market Size and Forecast, By Application
 - 7.4.9.3. Market Size and Forecast, By End User
 - 7.4.10. Australia Angioplasty Balloons Market
 - 7.4.10.1. Market Size and Forecast, By Type
 - 7.4.10.2. Market Size and Forecast, By Application
 - 7.4.10.3. Market Size and Forecast, By End User
 - 7.4.11. Rest of Asia-Pacific Angioplasty Balloons Market
 - 7.4.11.1. Market Size and Forecast, By Type
 - 7.4.11.2. Market Size and Forecast, By Application
 - 7.4.11.3. Market Size and Forecast, By End User
- 7.5. LAMEA
 - 7.5.1. Key Market Trends and Opportunities
 - 7.5.2. Market Size and Forecast, By Type
 - 7.5.3. Market Size and Forecast, By Application
 - 7.5.4. Market Size and Forecast, By End User
 - 7.5.5. Market Size and Forecast, By Country
 - 7.5.6. Brazil Angioplasty Balloons Market
 - 7.5.6.1. Market Size and Forecast, By Type
 - 7.5.6.2. Market Size and Forecast, By Application
 - 7.5.6.3. Market Size and Forecast, By End User
 - 7.5.7. South Africa Angioplasty Balloons Market
 - 7.5.7.1. Market Size and Forecast, By Type
 - 7.5.7.2. Market Size and Forecast, By Application
 - 7.5.7.3. Market Size and Forecast, By End User
 - 7.5.8. Saudi Arabia Angioplasty Balloons Market

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- 7.5.8.1. Market Size and Forecast, By Type
- 7.5.8.2. Market Size and Forecast, By Application
- 7.5.8.3. Market Size and Forecast, By End User
- 7.5.9. Rest of LAMEA Angioplasty Balloons Market
- 7.5.9.1. Market Size and Forecast, By Type
- 7.5.9.2. Market Size and Forecast, By Application
- 7.5.9.3. Market Size and Forecast, By End User

CHAPTER 8: COMPETITIVE LANDSCAPE

- 8.1. Introduction
- 8.2. Top Winning Strategies
- 8.3. Product Mapping of Top 10 Player
- 8.4. Competitive Dashboard
- 8.5. Competitive Heatmap
- 8.6. Top Player Positioning, 2023

CHAPTER 9: COMPANY PROFILES

- 9.1. Abbott Laboratories
 - 9.1.1. Company Overview
 - 9.1.2. Key Executives
 - 9.1.3. Company Snapshot
 - 9.1.4. Operating Business Segments
 - 9.1.5. Product Portfolio
 - 9.1.6. Business Performance
 - 9.1.7. Key Strategic Moves and Developments
- 9.2. B. Braun Melsungen AG
 - 9.2.1. Company Overview
 - 9.2.2. Key Executives
 - 9.2.3. Company Snapshot
 - 9.2.4. Operating Business Segments
 - 9.2.5. Product Portfolio
 - 9.2.6. Business Performance
 - 9.2.7. Key Strategic Moves and Developments
- 9.3. Biotronik SE And Co. KG
 - 9.3.1. Company Overview
 - 9.3.2. Key Executives
 - 9.3.3. Company Snapshot
 - 9.3.4. Operating Business Segments
 - 9.3.5. Product Portfolio
 - 9.3.6. Business Performance
 - 9.3.7. Key Strategic Moves and Developments
- 9.4. Boston Scientific Corporation
 - 9.4.1. Company Overview
 - 9.4.2. Key Executives
 - 9.4.3. Company Snapshot
 - 9.4.4. Operating Business Segments
 - 9.4.5. Product Portfolio
 - 9.4.6. Business Performance
 - 9.4.7. Key Strategic Moves and Developments

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- 9.5. C. R. Bard, Inc.
 - 9.5.1. Company Overview
 - 9.5.2. Key Executives
 - 9.5.3. Company Snapshot
 - 9.5.4. Operating Business Segments
 - 9.5.5. Product Portfolio
 - 9.5.6. Business Performance
 - 9.5.7. Key Strategic Moves and Developments
- 9.6. Cardinal Health, Inc
 - 9.6.1. Company Overview
 - 9.6.2. Key Executives
 - 9.6.3. Company Snapshot
 - 9.6.4. Operating Business Segments
 - 9.6.5. Product Portfolio
 - 9.6.6. Business Performance
 - 9.6.7. Key Strategic Moves and Developments
- 9.7. MEDTRONIC PLC.
 - 9.7.1. Company Overview
 - 9.7.2. Key Executives
 - 9.7.3. Company Snapshot
 - 9.7.4. Operating Business Segments
 - 9.7.5. Product Portfolio
 - 9.7.6. Business Performance
 - 9.7.7. Key Strategic Moves and Developments
- 9.8. MicroPort Scientific Corporation
 - 9.8.1. Company Overview
 - 9.8.2. Key Executives
 - 9.8.3. Company Snapshot
 - 9.8.4. Operating Business Segments
 - 9.8.5. Product Portfolio
 - 9.8.6. Business Performance
 - 9.8.7. Key Strategic Moves and Developments
- 9.9. Terumo Corporation
 - 9.9.1. Company Overview
 - 9.9.2. Key Executives
 - 9.9.3. Company Snapshot
 - 9.9.4. Operating Business Segments
 - 9.9.5. Product Portfolio
 - 9.9.6. Business Performance
 - 9.9.7. Key Strategic Moves and Developments
- 9.10. THE SPECTRANETICS CORPORATION
 - 9.10.1. Company Overview
 - 9.10.2. Key Executives
 - 9.10.3. Company Snapshot
 - 9.10.4. Operating Business Segments
 - 9.10.5. Product Portfolio
 - 9.10.6. Business Performance

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9.10.7. Key Strategic Moves and Developments

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