

Global Single-wall Carbon Nanotube Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Single-wall Carbon Nanotube market size was valued at USD 177.4 million in 2023 and is forecast to a readjusted size of USD 1376 million by 2030 with a CAGR of 34.0% during review period.

A single-wall carbon nanotube (SWCNTs) is just like a regular straw. It has only one layer, or wall. Singled-walled carbon nanotubes are graphene sheets wrapped into tubes, and are typically made up of various sizes and with different amounts of twist (also known as chiralities).

In terms of type, the single-wall carbon nanotube include: above 80% purity type, above 90% purity type, above 95% purity type and other types, of which the 80% purity type holds the biggest share about 95%. And terms of application, single-wall carbon nanotube is mianly used in energy (cathode/anodes), elastomers (tyres and industrial rubbers), composites, coatings. Energy (cathode/anodes) is the largest application that holds a share about 44%. The main players are OCSiAl, Zeon Nano Technology, Nano-C, Inc, Meijo Nano Carbon, etc.

The Global Info Research report includes an overview of the development of the Single-wall Carbon Nanotube industry chain, the market status of Energy (cathode/anodes) (Above 80%, Above 90%), Elastomers (tyres and industrial rubbers) (Above 80%, Above 90%), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Single-wall Carbon Nanotube.

Regionally, the report analyzes the Single-wall Carbon Nanotube markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Single-wall Carbon Nanotube market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Single-wall Carbon Nanotube market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Single-wall Carbon Nanotube industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Kg), revenue generated, and market share of different by Purity (e.g., Above 80%, Above 90%).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Single-wall Carbon Nanotube market.

Regional Analysis: The report involves examining the Single-wall Carbon Nanotube market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Single-wall Carbon Nanotube market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Single-wall Carbon Nanotube:

Company Analysis: Report covers individual Single-wall Carbon Nanotube manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios,

partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Single-wall Carbon Nanotube. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Energy (cathode/anodes), Elastomers (tyres and industrial rubbers)).

Technology Analysis: Report covers specific technologies relevant to Single-wall Carbon Nanotube. It assesses the current state, advancements, and potential future developments in Single-wall Carbon Nanotube areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Single-wall Carbon Nanotube market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Single-wall Carbon Nanotube market is split by Purity and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Purity, and by Application in terms of volume and value.

Market segment by Purity

Above 80%

Above 90%

Above 95%

Others

Market segment by Application

Energy (cathode/anodes)

Elastomers (tyres and industrial rubbers)

Composites

Coatings

Others

Major players covered

OCSiAl

Zeon Nano Technology

Nano-C, Inc

Meijo Nano Carbon

Raymor

Chasm Advanced Materials

Timesnano

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Single-wall Carbon Nanotube product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single-wall Carbon Nanotube, with price, sales, revenue and global market share of Single-wall Carbon Nanotube from 2019 to 2024.

Chapter 3, the Single-wall Carbon Nanotube competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Single-wall Carbon Nanotube breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Purity and application, with sales market share and growth rate by purity, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Single-wall Carbon Nanotube market forecast, by regions, purity and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Single-wall Carbon Nanotube.

Chapter 14 and 15, to describe Single-wall Carbon Nanotube sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Single-wall Carbon Nanotube
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Purity
 - 1.3.1 Overview: Global Single-wall Carbon Nanotube Consumption Value by Purity: 2019 Versus 2023 Versus 2030
 - 1.3.2 Above 80%
 - 1.3.3 Above 90%
 - 1.3.4 Above 95%
 - 1.3.5 Others
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global Single-wall Carbon Nanotube Consumption Value by Application: 2019 Versus 2023 Versus 2030
 - 1.4.2 Energy (cathode/anodes)
 - 1.4.3 Elastomers (tyres and industrial rubbers)
 - 1.4.4 Composites
 - 1.4.5 Coatings
 - 1.4.6 Others
- 1.5 Global Single-wall Carbon Nanotube Market Size & Forecast
 - 1.5.1 Global Single-wall Carbon Nanotube Consumption Value (2019 & 2023 & 2030)
 - 1.5.2 Global Single-wall Carbon Nanotube Sales Quantity (2019-2030)
 - 1.5.3 Global Single-wall Carbon Nanotube Average Price (2019-2030)

2 MANUFACTURERS PROFILES

- 2.1 OCSiAl
 - 2.1.1 OCSiAl Details
 - 2.1.2 OCSiAl Major Business
 - 2.1.3 OCSiAl Single-wall Carbon Nanotube Product and Services
 - 2.1.4 OCSiAl Single-wall Carbon Nanotube Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.1.5 OCSiAl Recent Developments/Updates
- 2.2 Zeon Nano Technology
 - 2.2.1 Zeon Nano Technology Details
 - 2.2.2 Zeon Nano Technology Major Business
 - 2.2.3 Zeon Nano Technology Single-wall Carbon Nanotube Product and Services

2.2.4 Zeon Nano Technology Single-wall Carbon Nanotube Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 Zeon Nano Technology Recent Developments/Updates

2.3 Nano-C, Inc

2.3.1 Nano-C, Inc Details

2.3.2 Nano-C, Inc Major Business

2.3.3 Nano-C, Inc Single-wall Carbon Nanotube Product and Services

2.3.4 Nano-C, Inc Single-wall Carbon Nanotube Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.3.5 Nano-C, Inc Recent Developments/Updates

2.4 Meijo Nano Carbon

2.4.1 Meijo Nano Carbon Details

2.4.2 Meijo Nano Carbon Major Business

2.4.3 Meijo Nano Carbon Single-wall Carbon Nanotube Product and Services

2.4.4 Meijo Nano Carbon Single-wall Carbon Nanotube Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 Meijo Nano Carbon Recent Developments/Updates

2.5 Raymor

2.5.1 Raymor Details

2.5.2 Raymor Major Business

2.5.3 Raymor Single-wall Carbon Nanotube Product and Services

2.5.4 Raymor Single-wall Carbon Nanotube Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.5.5 Raymor Recent Developments/Updates

2.6 Chasm Advanced Materials

2.6.1 Chasm Advanced Materials Details

2.6.2 Chasm Advanced Materials Major Business

2.6.3 Chasm Advanced Materials Single-wall Carbon Nanotube Product and Services

2.6.4 Chasm Advanced Materials Single-wall Carbon Nanotube Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.6.5 Chasm Advanced Materials Recent Developments/Updates

2.7 Timesnano

2.7.1 Timesnano Details

2.7.2 Timesnano Major Business

2.7.3 Timesnano Single-wall Carbon Nanotube Product and Services

2.7.4 Timesnano Single-wall Carbon Nanotube Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.7.5 Timesnano Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SINGLE-WALL CARBON NANOTUBE BY MANUFACTURER

- 3.1 Global Single-wall Carbon Nanotube Sales Quantity by Manufacturer (2019-2024)
- 3.2 Global Single-wall Carbon Nanotube Revenue by Manufacturer (2019-2024)
- 3.3 Global Single-wall Carbon Nanotube Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
 - 3.4.1 Producer Shipments of Single-wall Carbon Nanotube by Manufacturer Revenue (\$MM) and Market Share (%): 2023
 - 3.4.2 Top 3 Single-wall Carbon Nanotube Manufacturer Market Share in 2023
 - 3.4.2 Top 6 Single-wall Carbon Nanotube Manufacturer Market Share in 2023
- 3.5 Single-wall Carbon Nanotube Market: Overall Company Footprint Analysis
 - 3.5.1 Single-wall Carbon Nanotube Market: Region Footprint
 - 3.5.2 Single-wall Carbon Nanotube Market: Company Product Type Footprint
 - 3.5.3 Single-wall Carbon Nanotube Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Single-wall Carbon Nanotube Market Size by Region
 - 4.1.1 Global Single-wall Carbon Nanotube Sales Quantity by Region (2019-2030)
 - 4.1.2 Global Single-wall Carbon Nanotube Consumption Value by Region (2019-2030)
 - 4.1.3 Global Single-wall Carbon Nanotube Average Price by Region (2019-2030)
- 4.2 North America Single-wall Carbon Nanotube Consumption Value (2019-2030)
- 4.3 Europe Single-wall Carbon Nanotube Consumption Value (2019-2030)
- 4.4 Asia-Pacific Single-wall Carbon Nanotube Consumption Value (2019-2030)
- 4.5 South America Single-wall Carbon Nanotube Consumption Value (2019-2030)
- 4.6 Middle East and Africa Single-wall Carbon Nanotube Consumption Value (2019-2030)

5 MARKET SEGMENT BY PURITY

- 5.1 Global Single-wall Carbon Nanotube Sales Quantity by Purity (2019-2030)
- 5.2 Global Single-wall Carbon Nanotube Consumption Value by Purity (2019-2030)
- 5.3 Global Single-wall Carbon Nanotube Average Price by Purity (2019-2030)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Single-wall Carbon Nanotube Sales Quantity by Application (2019-2030)
- 6.2 Global Single-wall Carbon Nanotube Consumption Value by Application (2019-2030)
- 6.3 Global Single-wall Carbon Nanotube Average Price by Application (2019-2030)

7 NORTH AMERICA

- 7.1 North America Single-wall Carbon Nanotube Sales Quantity by Purity (2019-2030)
- 7.2 North America Single-wall Carbon Nanotube Sales Quantity by Application (2019-2030)
- 7.3 North America Single-wall Carbon Nanotube Market Size by Country
 - 7.3.1 North America Single-wall Carbon Nanotube Sales Quantity by Country (2019-2030)
 - 7.3.2 North America Single-wall Carbon Nanotube Consumption Value by Country (2019-2030)
 - 7.3.3 United States Market Size and Forecast (2019-2030)
 - 7.3.4 Canada Market Size and Forecast (2019-2030)
 - 7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

- 8.1 Europe Single-wall Carbon Nanotube Sales Quantity by Purity (2019-2030)
- 8.2 Europe Single-wall Carbon Nanotube Sales Quantity by Application (2019-2030)
- 8.3 Europe Single-wall Carbon Nanotube Market Size by Country
 - 8.3.1 Europe Single-wall Carbon Nanotube Sales Quantity by Country (2019-2030)
 - 8.3.2 Europe Single-wall Carbon Nanotube Consumption Value by Country (2019-2030)
 - 8.3.3 Germany Market Size and Forecast (2019-2030)
 - 8.3.4 France Market Size and Forecast (2019-2030)
 - 8.3.5 United Kingdom Market Size and Forecast (2019-2030)
 - 8.3.6 Russia Market Size and Forecast (2019-2030)
 - 8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Single-wall Carbon Nanotube Sales Quantity by Purity (2019-2030)
- 9.2 Asia-Pacific Single-wall Carbon Nanotube Sales Quantity by Application (2019-2030)
- 9.3 Asia-Pacific Single-wall Carbon Nanotube Market Size by Region

- 9.3.1 Asia-Pacific Single-wall Carbon Nanotube Sales Quantity by Region (2019-2030)
- 9.3.2 Asia-Pacific Single-wall Carbon Nanotube Consumption Value by Region (2019-2030)
- 9.3.3 China Market Size and Forecast (2019-2030)
- 9.3.4 Japan Market Size and Forecast (2019-2030)
- 9.3.5 Korea Market Size and Forecast (2019-2030)
- 9.3.6 India Market Size and Forecast (2019-2030)
- 9.3.7 Southeast Asia Market Size and Forecast (2019-2030)
- 9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

- 10.1 South America Single-wall Carbon Nanotube Sales Quantity by Purity (2019-2030)
- 10.2 South America Single-wall Carbon Nanotube Sales Quantity by Application (2019-2030)
- 10.3 South America Single-wall Carbon Nanotube Market Size by Country
 - 10.3.1 South America Single-wall Carbon Nanotube Sales Quantity by Country (2019-2030)
 - 10.3.2 South America Single-wall Carbon Nanotube Consumption Value by Country (2019-2030)
 - 10.3.3 Brazil Market Size and Forecast (2019-2030)
 - 10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Single-wall Carbon Nanotube Sales Quantity by Purity (2019-2030)
- 11.2 Middle East & Africa Single-wall Carbon Nanotube Sales Quantity by Application (2019-2030)
- 11.3 Middle East & Africa Single-wall Carbon Nanotube Market Size by Country
 - 11.3.1 Middle East & Africa Single-wall Carbon Nanotube Sales Quantity by Country (2019-2030)
 - 11.3.2 Middle East & Africa Single-wall Carbon Nanotube Consumption Value by Country (2019-2030)
 - 11.3.3 Turkey Market Size and Forecast (2019-2030)
 - 11.3.4 Egypt Market Size and Forecast (2019-2030)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)
 - 11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

- 12.1 Single-wall Carbon Nanotube Market Drivers
- 12.2 Single-wall Carbon Nanotube Market Restraints
- 12.3 Single-wall Carbon Nanotube Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Single-wall Carbon Nanotube and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Single-wall Carbon Nanotube
- 13.3 Single-wall Carbon Nanotube Production Process
- 13.4 Single-wall Carbon Nanotube Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Single-wall Carbon Nanotube Typical Distributors
- 14.3 Single-wall Carbon Nanotube Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Single-wall Carbon Nanotube Consumption Value by Purity, (USD Million), 2019 & 2023 & 2030

Table 2. Global Single-wall Carbon Nanotube Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. OCSiAI Basic Information, Manufacturing Base and Competitors

Table 4. OCSiAI Major Business

Table 5. OCSiAI Single-wall Carbon Nanotube Product and Services

Table 6. OCSiAI Single-wall Carbon Nanotube Sales Quantity (Kg), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. OCSiAI Recent Developments/Updates

Table 8. Zeon Nano Technology Basic Information, Manufacturing Base and Competitors

Table 9. Zeon Nano Technology Major Business

Table 10. Zeon Nano Technology Single-wall Carbon Nanotube Product and Services

Table 11. Zeon Nano Technology Single-wall Carbon Nanotube Sales Quantity (Kg), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Zeon Nano Technology Recent Developments/Updates

Table 13. Nano-C, Inc Basic Information, Manufacturing Base and Competitors

Table 14. Nano-C, Inc Major Business

Table 15. Nano-C, Inc Single-wall Carbon Nanotube Product and Services

Table 16. Nano-C, Inc Single-wall Carbon Nanotube Sales Quantity (Kg), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. Nano-C, Inc Recent Developments/Updates

Table 18. Meijo Nano Carbon Basic Information, Manufacturing Base and Competitors

Table 19. Meijo Nano Carbon Major Business

Table 20. Meijo Nano Carbon Single-wall Carbon Nanotube Product and Services

Table 21. Meijo Nano Carbon Single-wall Carbon Nanotube Sales Quantity (Kg), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Meijo Nano Carbon Recent Developments/Updates

Table 23. Raymor Basic Information, Manufacturing Base and Competitors

Table 24. Raymor Major Business

Table 25. Raymor Single-wall Carbon Nanotube Product and Services

Table 26. Raymor Single-wall Carbon Nanotube Sales Quantity (Kg), Average Price

(US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. Raymor Recent Developments/Updates

Table 28. Chasm Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 29. Chasm Advanced Materials Major Business

Table 30. Chasm Advanced Materials Single-wall Carbon Nanotube Product and Services

Table 31. Chasm Advanced Materials Single-wall Carbon Nanotube Sales Quantity (Kg), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. Chasm Advanced Materials Recent Developments/Updates

Table 33. Timesnano Basic Information, Manufacturing Base and Competitors

Table 34. Timesnano Major Business

Table 35. Timesnano Single-wall Carbon Nanotube Product and Services

Table 36. Timesnano Single-wall Carbon Nanotube Sales Quantity (Kg), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. Timesnano Recent Developments/Updates

Table 38. Global Single-wall Carbon Nanotube Sales Quantity by Manufacturer (2019-2024) & (Kg)

Table 39. Global Single-wall Carbon Nanotube Revenue by Manufacturer (2019-2024) & (USD Million)

Table 40. Global Single-wall Carbon Nanotube Average Price by Manufacturer (2019-2024) & (US\$/Kg)

Table 41. Market Position of Manufacturers in Single-wall Carbon Nanotube, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 42. Head Office and Single-wall Carbon Nanotube Production Site of Key Manufacturer

Table 43. Single-wall Carbon Nanotube Market: Company Product Type Footprint

Table 44. Single-wall Carbon Nanotube Market: Company Product Application Footprint

Table 45. Single-wall Carbon Nanotube New Market Entrants and Barriers to Market Entry

Table 46. Single-wall Carbon Nanotube Mergers, Acquisition, Agreements, and Collaborations

Table 47. Global Single-wall Carbon Nanotube Sales Quantity by Region (2019-2024) & (Kg)

Table 48. Global Single-wall Carbon Nanotube Sales Quantity by Region (2025-2030) & (Kg)

Table 49. Global Single-wall Carbon Nanotube Consumption Value by Region (2019-2024) & (USD Million)

Table 50. Global Single-wall Carbon Nanotube Consumption Value by Region (2025-2030) & (USD Million)

Table 51. Global Single-wall Carbon Nanotube Average Price by Region (2019-2024) & (US\$/Kg)

Table 52. Global Single-wall Carbon Nanotube Average Price by Region (2025-2030) & (US\$/Kg)

Table 53. Global Single-wall Carbon Nanotube Sales Quantity by Purity (2019-2024) & (Kg)

Table 54. Global Single-wall Carbon Nanotube Sales Quantity by Purity (2025-2030) & (Kg)

Table 55. Global Single-wall Carbon Nanotube Consumption Value by Purity (2019-2024) & (USD Million)

Table 56. Global Single-wall Carbon Nanotube Consumption Value by Purity (2025-2030) & (USD Million)

Table 57. Global Single-wall Carbon Nanotube Average Price by Purity (2019-2024) & (US\$/Kg)

Table 58. Global Single-wall Carbon Nanotube Average Price by Purity (2025-2030) & (US\$/Kg)

Table 59. Global Single-wall Carbon Nanotube Sales Quantity by Application (2019-2024) & (Kg)

Table 60. Global Single-wall Carbon Nanotube Sales Quantity by Application (2025-2030) & (Kg)

Table 61. Global Single-wall Carbon Nanotube Consumption Value by Application (2019-2024) & (USD Million)

Table 62. Global Single-wall Carbon Nanotube Consumption Value by Application (2025-2030) & (USD Million)

Table 63. Global Single-wall Carbon Nanotube Average Price by Application (2019-2024) & (US\$/Kg)

Table 64. Global Single-wall Carbon Nanotube Average Price by Application (2025-2030) & (US\$/Kg)

Table 65. North America Single-wall Carbon Nanotube Sales Quantity by Purity (2019-2024) & (Kg)

Table 66. North America Single-wall Carbon Nanotube Sales Quantity by Purity (2025-2030) & (Kg)

Table 67. North America Single-wall Carbon Nanotube Sales Quantity by Application (2019-2024) & (Kg)

Table 68. North America Single-wall Carbon Nanotube Sales Quantity by Application (2025-2030) & (Kg)

Table 69. North America Single-wall Carbon Nanotube Sales Quantity by Country

(2019-2024) & (Kg)

Table 70. North America Single-wall Carbon Nanotube Sales Quantity by Country (2025-2030) & (Kg)

Table 71. North America Single-wall Carbon Nanotube Consumption Value by Country (2019-2024) & (USD Million)

Table 72. North America Single-wall Carbon Nanotube Consumption Value by Country (2025-2030) & (USD Million)

Table 73. Europe Single-wall Carbon Nanotube Sales Quantity by Purity (2019-2024) & (Kg)

Table 74. Europe Single-wall Carbon Nanotube Sales Quantity by Purity (2025-2030) & (Kg)

Table 75. Europe Single-wall Carbon Nanotube Sales Quantity by Application (2019-2024) & (Kg)

Table 76. Europe Single-wall Carbon Nanotube Sales Quantity by Application (2025-2030) & (Kg)

Table 77. Europe Single-wall Carbon Nanotube Sales Quantity by Country (2019-2024) & (Kg)

Table 78. Europe Single-wall Carbon Nanotube Sales Quantity by Country (2025-2030) & (Kg)

Table 79. Europe Single-wall Carbon Nanotube Consumption Value by Country (2019-2024) & (USD Million)

Table 80. Europe Single-wall Carbon Nanotube Consumption Value by Country (2025-2030) & (USD Million)

Table 81. Asia-Pacific Single-wall Carbon Nanotube Sales Quantity by Purity (2019-2024) & (Kg)

Table 82. Asia-Pacific Single-wall Carbon Nanotube Sales Quantity by Purity (2025-2030) & (Kg)

Table 83. Asia-Pacific Single-wall Carbon Nanotube Sales Quantity by Application (2019-2024) & (Kg)

Table 84. Asia-Pacific Single-wall Carbon Nanotube Sales Quantity by Application (2025-2030) & (Kg)

Table 85. Asia-Pacific Single-wall Carbon Nanotube Sales Quantity by Region (2019-2024) & (Kg)

Table 86. Asia-Pacific Single-wall Carbon Nanotube Sales Quantity by Region (2025-2030) & (Kg)

Table 87. Asia-Pacific Single-wall Carbon Nanotube Consumption Value by Region (2019-2024) & (USD Million)

Table 88. Asia-Pacific Single-wall Carbon Nanotube Consumption Value by Region (2025-2030) & (USD Million)

Table 89. South America Single-wall Carbon Nanotube Sales Quantity by Purity (2019-2024) & (Kg)

Table 90. South America Single-wall Carbon Nanotube Sales Quantity by Purity (2025-2030) & (Kg)

Table 91. South America Single-wall Carbon Nanotube Sales Quantity by Application (2019-2024) & (Kg)

Table 92. South America Single-wall Carbon Nanotube Sales Quantity by Application (2025-2030) & (Kg)

Table 93. South America Single-wall Carbon Nanotube Sales Quantity by Country (2019-2024) & (Kg)

Table 94. South America Single-wall Carbon Nanotube Sales Quantity by Country (2025-2030) & (Kg)

Table 95. South America Single-wall Carbon Nanotube Consumption Value by Country (2019-2024) & (USD Million)

Table 96. South America Single-wall Carbon Nanotube Consumption Value by Country (2025-2030) & (USD Million)

Table 97. Middle East & Africa Single-wall Carbon Nanotube Sales Quantity by Purity (2019-2024) & (Kg)

Table 98. Middle East & Africa Single-wall Carbon Nanotube Sales Quantity by Purity (2025-2030) & (Kg)

Table 99. Middle East & Africa Single-wall Carbon Nanotube Sales Quantity by Application (2019-2024) & (Kg)

Table 100. Middle East & Africa Single-wall Carbon Nanotube Sales Quantity by Application (2025-2030) & (Kg)

Table 101. Middle East & Africa Single-wall Carbon Nanotube Sales Quantity by Region (2019-2024) & (Kg)

Table 102. Middle East & Africa Single-wall Carbon Nanotube Sales Quantity by Region (2025-2030) & (Kg)

Table 103. Middle East & Africa Single-wall Carbon Nanotube Consumption Value by Region (2019-2024) & (USD Million)

Table 104. Middle East & Africa Single-wall Carbon Nanotube Consumption Value by Region (2025-2030) & (USD Million)

Table 105. Single-wall Carbon Nanotube Raw Material

Table 106. Key Manufacturers of Single-wall Carbon Nanotube Raw Materials

Table 107. Single-wall Carbon Nanotube Typical Distributors

Table 108. Single-wall Carbon Nanotube Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Single-wall Carbon Nanotube Picture

Figure 2. Global Single-wall Carbon Nanotube Consumption Value by Purity, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Single-wall Carbon Nanotube Consumption Value Market Share by Purity in 2023

Figure 4. Above 80% Examples

Figure 5. Above 90% Examples

Figure 6. Above 95% Examples

Figure 7. Others Examples

Figure 8. Global Single-wall Carbon Nanotube Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 9. Global Single-wall Carbon Nanotube Consumption Value Market Share by Application in 2023

Figure 10. Energy (cathode/anodes) Examples

Figure 11. Elastomers (tyres and industrial rubbers) Examples

Figure 12. Composites Examples

Figure 13. Coatings Examples

Figure 14. Others Examples

Figure 15. Global Single-wall Carbon Nanotube Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 16. Global Single-wall Carbon Nanotube Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 17. Global Single-wall Carbon Nanotube Sales Quantity (2019-2030) & (Kg)

Figure 18. Global Single-wall Carbon Nanotube Average Price (2019-2030) & (US\$/Kg)

Figure 19. Global Single-wall Carbon Nanotube Sales Quantity Market Share by Manufacturer in 2023

Figure 20. Global Single-wall Carbon Nanotube Consumption Value Market Share by Manufacturer in 2023

Figure 21. Producer Shipments of Single-wall Carbon Nanotube by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 22. Top 3 Single-wall Carbon Nanotube Manufacturer (Consumption Value) Market Share in 2023

Figure 23. Top 6 Single-wall Carbon Nanotube Manufacturer (Consumption Value) Market Share in 2023

Figure 24. Global Single-wall Carbon Nanotube Sales Quantity Market Share by Region

(2019-2030)

Figure 25. Global Single-wall Carbon Nanotube Consumption Value Market Share by Region (2019-2030)

Figure 26. North America Single-wall Carbon Nanotube Consumption Value (2019-2030) & (USD Million)

Figure 27. Europe Single-wall Carbon Nanotube Consumption Value (2019-2030) & (USD Million)

Figure 28. Asia-Pacific Single-wall Carbon Nanotube Consumption Value (2019-2030) & (USD Million)

Figure 29. South America Single-wall Carbon Nanotube Consumption Value (2019-2030) & (USD Million)

Figure 30. Middle East & Africa Single-wall Carbon Nanotube Consumption Value (2019-2030) & (USD Million)

Figure 31. Global Single-wall Carbon Nanotube Sales Quantity Market Share by Purity (2019-2030)

Figure 32. Global Single-wall Carbon Nanotube Consumption Value Market Share by Purity (2019-2030)

Figure 33. Global Single-wall Carbon Nanotube Average Price by Purity (2019-2030) & (US\$/Kg)

Figure 34. Global Single-wall Carbon Nanotube Sales Quantity Market Share by Application (2019-2030)

Figure 35. Global Single-wall Carbon Nanotube Consumption Value Market Share by Application (2019-2030)

Figure 36. Global Single-wall Carbon Nanotube Average Price by Application (2019-2030) & (US\$/Kg)

Figure 37. North America Single-wall Carbon Nanotube Sales Quantity Market Share by Purity (2019-2030)

Figure 38. North America Single-wall Carbon Nanotube Sales Quantity Market Share by Application (2019-2030)

Figure 39. North America Single-wall Carbon Nanotube Sales Quantity Market Share by Country (2019-2030)

Figure 40. North America Single-wall Carbon Nanotube Consumption Value Market Share by Country (2019-2030)

Figure 41. United States Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 42. Canada Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 43. Mexico Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 44. Europe Single-wall Carbon Nanotube Sales Quantity Market Share by Purity (2019-2030)

Figure 45. Europe Single-wall Carbon Nanotube Sales Quantity Market Share by Application (2019-2030)

Figure 46. Europe Single-wall Carbon Nanotube Sales Quantity Market Share by Country (2019-2030)

Figure 47. Europe Single-wall Carbon Nanotube Consumption Value Market Share by Country (2019-2030)

Figure 48. Germany Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. France Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. United Kingdom Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 51. Russia Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 52. Italy Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 53. Asia-Pacific Single-wall Carbon Nanotube Sales Quantity Market Share by Purity (2019-2030)

Figure 54. Asia-Pacific Single-wall Carbon Nanotube Sales Quantity Market Share by Application (2019-2030)

Figure 55. Asia-Pacific Single-wall Carbon Nanotube Sales Quantity Market Share by Region (2019-2030)

Figure 56. Asia-Pacific Single-wall Carbon Nanotube Consumption Value Market Share by Region (2019-2030)

Figure 57. China Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. Japan Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. Korea Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. India Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 61. Southeast Asia Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 62. Australia Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 63. South America Single-wall Carbon Nanotube Sales Quantity Market Share

by Purity (2019-2030)

Figure 64. South America Single-wall Carbon Nanotube Sales Quantity Market Share by Application (2019-2030)

Figure 65. South America Single-wall Carbon Nanotube Sales Quantity Market Share by Country (2019-2030)

Figure 66. South America Single-wall Carbon Nanotube Consumption Value Market Share by Country (2019-2030)

Figure 67. Brazil Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 68. Argentina Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 69. Middle East & Africa Single-wall Carbon Nanotube Sales Quantity Market Share by Purity (2019-2030)

Figure 70. Middle East & Africa Single-wall Carbon Nanotube Sales Quantity Market Share by Application (2019-2030)

Figure 71. Middle East & Africa Single-wall Carbon Nanotube Sales Quantity Market Share by Region (2019-2030)

Figure 72. Middle East & Africa Single-wall Carbon Nanotube Consumption Value Market Share by Region (2019-2030)

Figure 73. Turkey Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. Egypt Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 75. Saudi Arabia Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 76. South Africa Single-wall Carbon Nanotube Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 77. Single-wall Carbon Nanotube Market Drivers

Figure 78. Single-wall Carbon Nanotube Market Restraints

Figure 79. Single-wall Carbon Nanotube Market Trends

Figure 80. Porters Five Forces Analysis

Figure 81. Manufacturing Cost Structure Analysis of Single-wall Carbon Nanotube in 2023

Figure 82. Manufacturing Process Analysis of Single-wall Carbon Nanotube

Figure 83. Single-wall Carbon Nanotube Industrial Chain

Figure 84. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 85. Direct Channel Pros & Cons

Figure 86. Indirect Channel Pros & Cons

Figure 87. Methodology

Figure 88. Research Process and Data Source

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