

Global CNT Primary Grades Market Size study & Forecast, by Type of CNT (Single-walled carbon nanotubes (SWCNTs), Multi-walled carbon nanotubes (MWCNTs)), by Application (Chemical and materials, Electrical and electronics, Energy, Healthcare and life sciences, Aerospace and defense, Others), by End-Use Industry (Automotive, Construction, Aerospace and defense, Electronics, Medical, Others) and Regional Analysis, 2023-2030

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Abstracts

Global CNT Primary Grades Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. The CNT primary grades market refers to the market for carbon nanotubes (CNTs) that are used as raw materials or primary grades in various applications such as electronics, aerospace, energy, and healthcare. CNTs are a type of nanomaterial made of rolled-up graphene sheets and have unique properties such as high strength, electrical conductivity, and thermal conductivity. The major driving factors for the Global CNT Primary Grades Market are increasing demand for miniaturization in the electronics industry and growing demand for lightweight, high-strength materials in the automotive and aerospace industries. Furthermore, the growing R&D investments and technological advancements in CNT production and application are expected to create new opportunities for the market in the coming years.

In June 2020, the BMW Group announced its plans to increase the use of carbon fiber-reinforced plastic (CFRP) in its vehicle components, which would reduce the weight of its cars and improve fuel efficiency. Furthermore, in November 2020, the European

Space Agency (ESA) announced the successful testing of a 3D-printed rocket engine made of CNT composites, which demonstrated the potential for CNTs to be used in the aerospace industry. However, the high cost of CNT Primary Grades stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global CNT Primary Grades Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. In North America, the United States is expected to be the largest market for CNT primary grades due to the presence of several key players and significant R&D activities in the region. Asia-Pacific is projected to be the fastest-growing market for CNT primary grades due to the rapid industrialization in countries such as China, Japan, South Korea, and India. The increasing demand for high-performance materials and the growth of the electronics and automotive industries are expected to drive the market in this region.

Major market players included in this report are:

Arkema Group

Carbon Solutions Inc.

Cheap Tubes Inc.

CNano Technology Limited

Hanwha Chemical Corporation

Hyperion Catalysis International Inc.

Klean Carbon Inc.

Nano-C Inc.

Nanocyl S.A.

OCSiAl Group

Recent Developments in the Market:

In January 2021, researchers from the University of Manchester and the National Physical Laboratory developed a new method to measure the quality of CNTs in real-time. The initiative aims to help manufacturers produce high-quality CNTs for various applications, including electronics, energy storage, and biomedical devices.

In October 2020, OCSiAl Group announced the launch of a new grade of CNTs, called TUBALL MATRIX 815, which is specifically designed for the production of high-performance polymer composites. The initiative aims to help manufacturers improve the mechanical and electrical properties of their products.

Global CNT Primary Grades Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type of CNT, Application, End-Use Industry, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and Type of CNT offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type of CNT:

Single-walled carbon nanotubes (SWCNTs)

Multi-walled carbon nanotubes (MWCNTs)

By Application:

Chemical and materials

Electrical and electronics

Energy

Healthcare and life sciences

Aerospace and defense

Others

By End-Use Industry:

Automotive

Construction

Aerospace and defense

Electronics

Medical

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
 - 1.2.1. CNT Primary Grades Market, by Region, 2020-2030 (USD Billion)
 - 1.2.2. CNT Primary Grades Market, by Type of CNT, 2020-2030 (USD Billion)
 - 1.2.3. CNT Primary Grades Market, by Application, 2020-2030 (USD Billion)
 - 1.2.4. CNT Primary Grades Market, by End-Use Industry, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL CNT PRIMARY GRADES MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL CNT PRIMARY GRADES MARKET DYNAMICS

- 3.1. CNT Primary Grades Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Increasing demand for miniaturization in the electronics industry
 - 3.1.1.2. Growing demand for lightweight automotive and aerospace
 - 3.1.2. Market Challenges
 - 3.1.2.1. High Cost of CNT Primary Grades
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Growing R&D investments
 - 3.1.3.2. Technological advancements in CNT production

CHAPTER 4. GLOBAL CNT PRIMARY GRADES MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers

- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL CNT PRIMARY GRADES MARKET, BY TYPE OF CNT

- 5.1. Market Snapshot
- 5.2. Global CNT Primary Grades Market by Type of CNT, Performance - Potential Analysis
- 5.3. Global CNT Primary Grades Market Estimates & Forecasts by Type of CNT 2020-2030 (USD Billion)
- 5.4. CNT Primary Grades Market, Sub Segment Analysis
 - 5.4.1. Single-walled carbon nanotubes (SWCNTs)
 - 5.4.2. Multi-walled carbon nanotubes (MWCNTs)

CHAPTER 6. GLOBAL CNT PRIMARY GRADES MARKET, BY APPLICATION

- 6.1. Market Snapshot
- 6.2. Global CNT Primary Grades Market by Application, Performance - Potential Analysis
- 6.3. Global CNT Primary Grades Market Estimates & Forecasts by Application 2020-2030 (USD Billion)
- 6.4. CNT Primary Grades Market, Sub Segment Analysis
 - 6.4.1. Chemical and materials

- 6.4.2. Electrical and electronics
- 6.4.3. Energy
- 6.4.4. Healthcare and life sciences
- 6.4.5. Aerospace and defense
- 6.4.6. Others

CHAPTER 7. GLOBAL CNT PRIMARY GRADES MARKET, BY END-USE INDUSTRY

- 7.1. Market Snapshot
- 7.2. Global CNT Primary Grades Market by End-Use Industry, Performance - Potential Analysis
- 7.3. Global CNT Primary Grades Market Estimates & Forecasts by End-Use Industry 2020-2030 (USD Billion)
- 7.4. CNT Primary Grades Market, Sub Segment Analysis
 - 7.4.1. Automotive
 - 7.4.2. Construction
 - 7.4.3. Aerospace and defense
 - 7.4.4. Electronics
 - 7.4.5. Medical
 - 7.4.6. Others

CHAPTER 8. GLOBAL CNT PRIMARY GRADES MARKET, REGIONAL ANALYSIS

- 8.1. Top Leading Countries
- 8.2. Top Emerging Countries
- 8.3. CNT Primary Grades Market, Regional Market Snapshot
- 8.4. North America CNT Primary Grades Market
 - 8.4.1. U.S. CNT Primary Grades Market
 - 8.4.1.1. Type of CNT breakdown estimates & forecasts, 2020-2030
 - 8.4.1.2. Application breakdown estimates & forecasts, 2020-2030
 - 8.4.1.3. End-Use Industry breakdown estimates & forecasts, 2020-2030
 - 8.4.2. Canada CNT Primary Grades Market
- 8.5. Europe CNT Primary Grades Market Snapshot
 - 8.5.1. U.K. CNT Primary Grades Market
 - 8.5.2. Germany CNT Primary Grades Market
 - 8.5.3. France CNT Primary Grades Market
 - 8.5.4. Spain CNT Primary Grades Market
 - 8.5.5. Italy CNT Primary Grades Market
 - 8.5.6. Rest of Europe CNT Primary Grades Market

8.6. Asia-Pacific CNT Primary Grades Market Snapshot

- 8.6.1. China CNT Primary Grades Market
- 8.6.2. India CNT Primary Grades Market
- 8.6.3. Japan CNT Primary Grades Market
- 8.6.4. Australia CNT Primary Grades Market
- 8.6.5. South Korea CNT Primary Grades Market
- 8.6.6. Rest of Asia Pacific CNT Primary Grades Market

8.7. Latin America CNT Primary Grades Market Snapshot

- 8.7.1. Brazil CNT Primary Grades Market
- 8.7.2. Mexico CNT Primary Grades Market

8.8. Middle East & Africa CNT Primary Grades Market

- 8.8.1. Saudi Arabia CNT Primary Grades Market
- 8.8.2. South Africa CNT Primary Grades Market
- 8.8.3. Rest of Middle East & Africa CNT Primary Grades Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

9.1. Key Company SWOT Analysis

- 9.1.1. Company
- 9.1.2. Company
- 9.1.3. Company

9.2. Top Market Strategies

9.3. Company Profiles

- 9.3.1. Arkema Group
 - 9.3.1.1. Key Information
 - 9.3.1.2. Overview
 - 9.3.1.3. Financial (Subject to Data Availability)
 - 9.3.1.4. Product Summary
 - 9.3.1.5. Recent Developments
- 9.3.2. Carbon Solutions Inc.
- 9.3.3. Cheap Tubes Inc.
- 9.3.4. CNano Technology Limited
- 9.3.5. Hanwha Chemical Corporation
- 9.3.6. Hyperion Catalysis International Inc.
- 9.3.7. Klean Carbon Inc.
- 9.3.8. Nano-C Inc.
- 9.3.9. Nanocyl S.A.
- 9.3.10. OCSiAl Group

CHAPTER 10. RESEARCH PROCESS

10.1. Research Process

10.1.1. Data Mining

10.1.2. Analysis

10.1.3. Market Estimation

10.1.4. Validation

10.1.5. Publishing

10.2. Research Attributes

10.3. Research Assumption

List Of Tables

LIST OF TABLES

- TABLE 1. Global CNT Primary Grades Market, report scope
- TABLE 2. Global CNT Primary Grades Market estimates & forecasts by Region 2020-2030 (USD Billion)
- TABLE 3. Global CNT Primary Grades Market estimates & forecasts by Type of CNT 2020-2030 (USD Billion)
- TABLE 4. Global CNT Primary Grades Market estimates & forecasts by Application 2020-2030 (USD Billion)
- TABLE 5. Global CNT Primary Grades Market estimates & forecasts by End-Use Industry 2020-2030 (USD Billion)
- TABLE 6. Global CNT Primary Grades Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 7. Global CNT Primary Grades Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 8. Global CNT Primary Grades Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 9. Global CNT Primary Grades Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 10. Global CNT Primary Grades Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 11. Global CNT Primary Grades Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 12. Global CNT Primary Grades Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 13. Global CNT Primary Grades Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 14. Global CNT Primary Grades Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 15. Global CNT Primary Grades Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 16. U.S. CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 17. U.S. CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 18. U.S. CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 19. Canada CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 20. Canada CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 21. Canada CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 22. UK CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 23. UK CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 24. UK CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 25. Germany CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 26. Germany CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 27. Germany CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 28. France CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 29. France CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 30. France CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 31. Italy CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 32. Italy CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 33. Italy CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 34. Spain CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 35. Spain CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 36. Spain CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 37. RoE CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 38. RoE CNT Primary Grades Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 39. RoE CNT Primary Grades Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 40. China CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 41. China CNT Primary Grades Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 42. China CNT Primary Grades Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 43. India CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 44. India CNT Primary Grades Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 45. India CNT Primary Grades Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 46. Japan CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 47. Japan CNT Primary Grades Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 48. Japan CNT Primary Grades Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 49. South Korea CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 50. South Korea CNT Primary Grades Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 51. South Korea CNT Primary Grades Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 52. Australia CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 53. Australia CNT Primary Grades Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 54. Australia CNT Primary Grades Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 55. RoAPAC CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 56. RoAPAC CNT Primary Grades Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 57. RoAPAC CNT Primary Grades Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 58. Brazil CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 59. Brazil CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 60. Brazil CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 61. Mexico CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 62. Mexico CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 63. Mexico CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 64. RoLA CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 65. RoLA CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 66. RoLA CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 67. Saudi Arabia CNT Primary Grades Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 68. South Africa CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 69. RoMEA CNT Primary Grades Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 70. List of secondary sources, used in the study of global CNT Primary Grades Market

TABLE 71. List of primary sources, used in the study of global CNT Primary Grades Market

TABLE 72. Years considered for the study

TABLE 73. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global CNT Primary Grades Market, research methodology
 - FIG 2. Global CNT Primary Grades Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global CNT Primary Grades Market, key trends 2022
 - FIG 5. Global CNT Primary Grades Market, growth prospects 2023-2030
 - FIG 6. Global CNT Primary Grades Market, porters 5 force model
 - FIG 7. Global CNT Primary Grades Market, pest analysis
 - FIG 8. Global CNT Primary Grades Market, value chain analysis
 - FIG 9. Global CNT Primary Grades Market by segment, 2020 & 2030 (USD Billion)
 - FIG 10. Global CNT Primary Grades Market by segment, 2020 & 2030 (USD Billion)
 - FIG 11. Global CNT Primary Grades Market by segment, 2020 & 2030 (USD Billion)
 - FIG 12. Global CNT Primary Grades Market by segment, 2020 & 2030 (USD Billion)
 - FIG 13. Global CNT Primary Grades Market by segment, 2020 & 2030 (USD Billion)
 - FIG 14. Global CNT Primary Grades Market, regional snapshot 2020 & 2030
 - FIG 15. North America CNT Primary Grades Market 2020 & 2030 (USD Billion)
 - FIG 16. Europe CNT Primary Grades Market 2020 & 2030 (USD Billion)
 - FIG 17. Asia Pacific CNT Primary Grades Market 2020 & 2030 (USD Billion)
 - FIG 18. Latin America CNT Primary Grades Market 2020 & 2030 (USD Billion)
 - FIG 19. Middle East & Africa CNT Primary Grades Market 2020 & 2030 (USD Billion)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

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