

# EUROPE CARBON NANOTUBES (CNT) MARKET FORECAST 2017-2024

<https://marketpublishers.com/r/E7DE99503EDEN.html>

Date: December 2017

Pages: 65

Price: US\$ 1,250.00 (Single User License)

ID: E7DE99503EDEN

## Abstracts

### KEY FINDINGS

The Europe carbon nanotube market was worth \$348 million in 2016 and is expected to reach \$1770 million by 2024 with an estimated growth in CAGR of 22.94%. The potential to replace fragile & expensive material like indium-in-coated films, multiple applications across several sectors, and added advantage due to physical properties of the CNTs are propelling the European carbon nanotube market.

### MARKET INSIGHTS

The market is segmented on the basis of the product, i.e., MWCNT and SWCNT. The properties of SWCNT are superior to that of MWCNT, and they are less expensive to manufacture. Therefore, the growth rate of SWCNT is predicted to be more than MWCNT in the near future. On the basis of end-user, the market is divided into four segments viz. electronics, automotive, aerospace /defense, and others with the electronics segment contributing the highest revenue. In terms of application, the aerospace and defense is the fastest growing sector of the CNT market.

### COMPETITIVE INSIGHTS

The key players in the market include Future Carbon GmbH, Hanwha Nanotech Corporation, Raymor Industries Inc, Aray International Group Limited, Nanothinx Sa,

Showa Denko K.K., Andgrafen Chemical Industries Limited, Carbon Solutions, Nanoshel Llc, Korea Kumho Petrochemical Company Ltd, Cheap Tubes Inc, Hyperion Catalysis International Inc and Cnano Technology Limited.

## Contents

### **1. RESEARCH SCOPE**

- 1.1. STUDY GOALS
- 1.2. SCOPE OF THE MARKET STUDY
- 1.3. WHO WILL FIND THIS REPORT USEFUL?
- 1.4. STUDY AND FORECASTING YEARS

### **2. RESEARCH METHODOLOGY**

- 2.1. SOURCES OF DATA
  - 2.1.1. SECONDARY DATA
  - 2.1.2. PRIMARY DATA
- 2.2. TOP DOWN APPROACH
- 2.3. BOTTOM-UP APPROACH
- 2.4. DATA TRIANGULATION
- 2.5. ESTIMATION METHODOLOGY

### **3. EXECUTIVE SUMMARY**

- 3.1. MARKET SUMMARY
- 3.2. KEY FINDINGS
  - 3.2.1. ELECTRONICS INDUSTRY IS A POTENTIAL CONSUMER FOR CNT
  - 3.2.2. CHEMICAL, POLYMERS AND COMPOSITE MATERIALS TO RETAIN HIGH DEMAND FOR CARBON NANOTUBES TILL 2024

### **4. MARKET DYNAMICS**

- 4.1. ETYMOLOGY OF THE CARBON NANOTUBES MARKET
- 4.2. BENEFITS AND LIMITATIONS OF CARBON NANOTUBES
- 4.3. MARKET DEFINITION AND SCOPE
- 4.4. MARKET DRIVERS
  - 4.4.1. POTENTIAL TO REPLACE FRAGILE & EXPENSIVE MATERIAL LIKE INDIUM-IN-COATED FILMS
  - 4.4.2. RISE IN PRODUCTION CAPACITIES
  - 4.4.3. MULTIPLE APPLICATIONS ACROSS SECTORS
  - 4.4.4. ADVANTAGES DUE TO PHYSICAL PROPERTIES
  - 4.4.5. TECHNOLOGICAL ADVANCEMENTS

#### 4.5. RESTRAINTS

4.5.1. NEGATIVE IMPACT ON THE ENVIRONMENT

4.5.2. EFFICIENCY ISSUES

#### 4.6. OPPORTUNITIES

4.6.1. DECREASING PRICES OF SWCNT

4.6.2. INCREASING DEMAND FROM EMERGING ECONOMIES

#### 4.7. CHALLENGES

4.7.1. TECHNOLOGICAL CHALLENGES

4.7.2. DIFFICULTY IN ALIGNING CNT IN CHIPS

### 5. EUROPE CNT MARKET BY PRODUCT

5.1. MWCNT

5.2. 5.2 SWCNT

### 6. EUROPE CNT MARKET BY APPLICATION

6.1. CHEMICALS, POLYMER, AND COMPOSITES MATERIAL

6.2. ELECTRONIC DEVICE AND SEMICONDUCTORS

6.3. ENERGY AND ENERGY-RELATED AREAS

6.4. OTHERS

### 7. EUROPE CNT MARKET BY END-USER

7.1. ELECTRONICS

7.2. AUTOMOTIVE

7.3. AEROSPACE/DEFENCE

7.4. OTHERS

### 8. KEY ANALYTICS

8.1. PORTER'S 5 FORCE MODEL

8.1.1. BARGAINING POWER OF BUYERS

8.1.2. INTENSITY OF COMPETITIVE RIVALRY

8.1.3. BARGAINING POWER OF SUPPLIERS

8.1.4. THREAT OF NEW ENTRANTS

8.1.5. THREAT OF SUBSTITUTES

8.2. OPPORTUNITY MATRIX FOR CARBON NANOTUBES MARKET

8.3. PESTEL ANALYSIS

- 8.4. VENDOR LANDSCAPE
- 8.5. LEGAL, POLICY & REGULATORY FRAMEWORK
- 8.6. KEY BUYING CRITERIA
  - 8.6.1. PRICE
  - 8.6.2. AVAILABILITY
  - 8.6.3. TECHNOLOGY
  - 8.6.4. REGIONAL OPPORTUNITIES
  - 8.6.5. APPLICATION OPPORTUNITIES

## **9. GEOGRAPHICAL ANALYSIS**

- 9.1. GERMANY
- 9.2. UK
- 9.3. FRANCE
- 9.4. REST OF EUROPE

## **10. COMPETITIVE LANDSCAPE**

- 10.1. MARKET SHARE ANALYSIS
- 10.2. RECENT DEVELOPMENT
- 10.3. COMPANY PROFILE
  - 10.3.1. ARKEMA SA
    - 10.3.1.1. OVERVIEW
    - 10.3.1.2. PRODUCT PORTFOLIO
    - 10.3.1.3. SCOT ANALYSIS
    - 10.3.1.4. STRATEGIC INITIATIVE
  - 10.3.2. NANOCYL SA
    - 10.3.2.1. OVERVIEW
    - 10.3.2.2. PRODUCT PORTFOLIO
    - 10.3.2.3. SCOT ANALYSIS
    - 10.3.2.4. STRATEGIC INITIATIVE
  - 10.3.3. CHEAP TUBES INC.
    - 10.3.3.1. OVERVIEW
    - 10.3.3.2. PRODUCT PORTFOLIO
    - 10.3.3.3. SCOT ANALYSIS
  - 10.3.4. NANOTHINX SA
    - 10.3.4.1. OVERVIEW
    - 10.3.4.2. PRODUCT PORTFOLIO
    - 10.3.4.3. SCOT ANALYSIS

- 10.3.5. HYPERION CATALYSIS INTERNATIONAL INC
  - 10.3.5.1. OVERVIEW
  - 10.3.5.2. PRODUCT PORTFOLIO
  - 10.3.5.3. SCOT ANALYSIS
- 10.3.6. KLEAN COMMODITIES
  - 10.3.6.1. OVERVIEW
  - 10.3.6.2. PRODUCT PORTFOLIO
  - 10.3.6.3. SCOT ANALYSIS
- 10.3.7. FUTURE CARBON GMBH
  - 10.3.7.1. OVERVIEW
  - 10.3.7.2. PRODUCT PORTFOLIO
  - 10.3.7.3. SCOT ANALYSIS
- 10.3.8. RAYMOR INDUSTRIES INC
  - 10.3.8.1. OVERVIEW
  - 10.3.8.2. PRODUCT PORTFOLIO
  - 10.3.8.3. SCOT ANALYSIS
  - 10.3.8.4. STRATEGIC INITIATIVE
- 10.3.9. HANWHA NANOTECH CORPORATION
  - 10.3.9.1. OVERVIEW
  - 10.3.9.2. PRODUCT PORTFOLIO
  - 10.3.9.3. SCOT ANALYSIS
- 10.3.10. KOREA KUMHO PETROCHEMICAL COMPANY LTD
  - 10.3.10.1. OVERVIEW
  - 10.3.10.2. PRODUCT PORTFOLIO
  - 10.3.10.3. SCOT ANALYSIS
- 10.3.11. SHOWA DENKO K.K.
  - 10.3.11.1. OVERVIEW
  - 10.3.11.2. PRODUCT PORTFOLIO
  - 10.3.11.3. SCOT ANALYSIS
  - 10.3.11.4. STRATEGIC INITIATIVE
- 10.3.12. CNANO TECHNOLOGY LIMITED
  - 10.3.12.1. OVERVIEW
  - 10.3.12.2. PRODUCT PORTFOLIO
  - 10.3.12.3. SCOT ANALYSIS
- 10.3.13. CARBON SOLUTIONS
  - 10.3.13.1. OVERVIEW
  - 10.3.13.2. PRODUCT PORTFOLIO
  - 10.3.13.3. SCOT ANALYSIS
  - 10.3.13.4. STRATEGIC INITIATIVE

**10.3.14. NANOSHEL LLC****10.3.14.1. OVERVIEW****10.3.14.2. PRODUCT PORTFOLIO****10.3.14.3. SCOT ANALYSIS****10.3.15. ARRY INTERNATIONAL GROUP LIMITED****10.3.15.1. OVERVIEW****10.3.15.2. PRODUCT BENCHMARKING****10.3.15.3. SCOT ANALYSIS****10.3.16. GRAFEN CHEMICAL INDUSTRIES LIMITED****10.3.16.1. OVERVIEW****10.3.16.2. PRODUCT PORTFOLIO****10.3.16.3. SCOT ANALYSIS****10.3.16.4. STRATEGIC INITIATIVE****10.3.17. SHENZHEN SUSN SINOTECH NEW MATERIALS CO. LTD.****10.3.17.1. OVERVIEW**

## List Of Tables

### LIST OF TABLES

Table 1 EUROPE CARBON NANOTUBES MARKET BY COUNTRY 2017-2024 (\$ MILLION)

Table 2 BENEFITS AND LIMITATIONS OF CARBON NANOTUBES

Table 3 EUROPE CNT MARKET BY PRODUCT 2017-2024 (\$ MILLION)

Table 4 EUROPE CNT MARKET BY APPLICATION 2017-2024 (\$ MILLION)

Table 5 EUROPE CNT MARKET BY END-USER 2017-2024 (\$ MILLION)



## List Of Figures

### LIST OF FIGURES

Figure 1 EUROPE MWCNT MARKET 2017-2024 (\$ MILLION)

Figure 2 EUROPE SWCNT MARKET 2017-2024 (\$ MILLION)

Figure 3 EUROPE CHEMICALS, POLYMER, AND COMPOSITES MATERIAL MARKET 2017-2024 (\$ MILLION)

Figure 4 EUROPE ELECTRONIC DEVICE AND SEMICONDUCTORS MARKET 2017-2024 (\$ MILLION)

Figure 5 EUROPE ENERGY AND ENERGY RELATED AREAS MARKET 2017-2024 (\$ MILLION)

Figure 6 EUROPE OTHER APPLICATION MARKET 2017-2024 (\$ MILLION)

Figure 7 EUROPE ELECTTRONICS MARKET 2017-2024 (\$ MILLION)

Figure 8 EUROPE AUTOMOTIVE MARKET 2017-2024 (\$ MILLION)

Figure 9 EUROPE AEROSPACE/DEFENCE MARKET 2017-2024 (\$ MILLION)

Figure 10 EUROPE OTHER END USERS MARKET 2017-2024 (\$ MILLION)

Figure 11 INVESTMENT PROPOSITION FOR CNT MARKET BY COUNTRY

Figure 12 INVESTMENT PROPOSITION FOR CNT MARKET BY APPLICATION

Figure 13 GERMANY CARBON NANOTUBES MARKET 2017-2024 (\$ MILLION)

Figure 12 UK CARBON NANOTUBES MARKET 2017-2024 (\$ MILLION)

Figure 13 FRANCE CARBON NANOTUBES MARKET 2017-2024 (\$ MILLION)

Figure 14 REST OF EUROPE CARBON NANOTUBES MARKET 2017-2024 (\$ MILLION)

## I would like to order

Product name: EUROPE CARBON NANOTUBES (CNT) MARKET FORECAST 2017-2024

Product link: <https://marketpublishers.com/r/E7DE99503EDEN.html>

Price: US\$ 1,250.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/E7DE99503EDEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970