

Nano-enabled Packaging Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Sales Channel (Offline, Online), By Technology (Active Packaging, Intelligent and Smart Packaging, Others), By Application (Food and Beverages, Pharmaceutical, Personal Care, Others), By Region and Competition

<https://marketpublishers.com/r/N7F7E701BA1CEN.html>

Date: August 2023

Pages: 116

Price: US\$ 4,900.00 (Single User License)

ID: N7F7E701BA1CEN

Abstracts

Global Nano-enabled Packaging market is expected to grow significantly through 2028 owing to the increasing demand from the food & beverage sector. In 2018, paper-based packaging increased by 24 % for food and beverage products.

One of the sectors with the fastest rate of growth is nanotechnology, which is boosting a number of sectors, including the packaging sector. More bakery, meat, fruit, and vegetable products, as well as other processed food products, use nano-enabled packaging. In addition, advancements in nanotechnology and increased global investments, food safety regulations introduced by governments around the world have boosted the market in the projected year.

Rising Demand From Food & Beverage Sector

Recent advancements in product safety, shelf life extension, economic effectiveness, environmental concerns, and customer convenience have all contributed to the evolution of food and beverage packaging. Active packaging, a revolutionary approach to food and beverage packaging, can allow the abovementioned extension and improvement in quality. Traditional packaging has certain limitations when it comes to increasing shelf life. Owing to this, applying nanotechnology to the food and beverage

industries improves the antibacterial, mechanical, and barrier properties of food packaging as well as the color, flavor, taste, texture, and consistency of food. It also increases the bioavailability and absorption of nutrients from food. Customers may be informed about a product's safety if it includes nanoparticles. Preservatives can be released by it, extending the life span of packaged foods.

Moreover, the food and beverage packaging industry uses a broad variety of nanosensors, including array biosensors, electronic noses, nanocantilevers, nano-test strips, nanoparticles in solution, and others. Throughout the food supply chain, packaging containing nanosensors can be used to track the exterior or interior conditions of food products, pellets, and containers.

For instance, According to BusinessDay, Nigeria invests USD 380 million in food packaging technology in 2021

Therefore, increasing demand for the food & beverage sector is expected to drive the growth of Global Nano-enabled Packaging market during the forecast period.

Growing Demand from Pharmaceutical Sector

By extending the shelf life of the packaging and serving as an antibacterial barrier, nanotechnology-enabled packaging gives medicines chemical and physical stability. It helps to restore the medical characteristics of the drugs and shields them from environmental toxins. This type of packaging helps in protecting drugs from light, moisture, and air.

For instance, in September 2022, the Union Health Ministry of India made quick response (QR) codes mandatory on the packaging of 300 life-saving drugs.

All these factors drive are expected to drive the Global Nano-enabled Packaging market demand during the forecast period.

Active Packaging will be the key Technology

Nanoparticles are used in active nano-enabled packaging to shield them from outside effects. This process makes use of oxygen scavengers, carbon dioxide producers, water vapor removers, ethanol releasers, and ethylene removers. This technology is anticipated to meet the future needs of both the food and beverage industry and the pharmaceutical industry.

Furthermore, intelligent and smart packaging is made to detect microbiological or biochemical changes in the food, such as the development of particular infections or the presence of particular gases that might cause food spoiling. Additionally, this technology serves as a tracking tool to guarantee food safety or prevent product fraud.

Therefore, with the development of packaging technology, the demand for Global Nano-enabled Packaging market increases during the forecast period.

Recent Developments

In December 2022, Amcor opened the largest flexible packaging plant in China.

Amcor launches more sustainable packaging for pharmaceuticals in April 2022.

In June 2020, in order to meet the rising local demand and shorten lead times, BASF SE expanded the manufacture of packaging coatings to South China.

Danaflex Nano LLC launched packaging material for antiseptics and other medical equipment in May 2020.

Market Segmentation

Global Nano-enabled Packaging Market is segmented based on sales channel, technology, application, and region. Based on the sales channel, the market is further bifurcated into offline and online. Based on the technology, the market is further segmented into active packaging, intelligent and smart packaging, and others. Based on application, the market is further segmented into food and beverages, pharmaceutical, personal care, and others. Based on region, the market is divided into North America, Europe, Asia Pacific, South America, Middle East & Africa.

Company Profiles

Danaflex Nano LLC., Amcor plc, Sonoco Products Co., BASF SE, Avery Dennison Corp., Tetra Pak International S.A., DuPont Teijin Films, Sealed Air Corporation, Sidel Group, and Innovia Films Ltd. are some of the key players in the global Nano-enabled Packaging market.

Report Scope:

In this report, Global Nano-enabled Packaging market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

Nano-enabled Packaging Market, By Sales Channel:

Offline

Online

Nano-enabled Packaging Market, By Technology:

Active Packaging

Intelligent and Smart Packaging

Others

Nano-enabled Packaging Market, By Application:

Food and Beverages

Pharmaceutical

Personal Care

Others

Nano-enabled Packaging Market, By Region:

North America

United States

Mexico

Canada

Europe

France

Germany

United Kingdom

Spain

Italy

Switzerland

Asia-Pacific

China

India

South Korea

Japan

Australia

South America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive landscape

Company Profiles: Detailed analysis of the major companies in global Nano-enabled Packaging market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL NANO-ENABLED PACKAGING MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value & Volume
- 5.2. Market Share & Forecast
 - 5.2.1. By Sales Channel (Offline, Online)
 - 5.2.2. By Technology (Active Packaging, Intelligent and Smart Packaging, Others)
 - 5.2.3. By Application (Food and Beverages, Pharmaceutical, Personal Care, Others)
 - 5.2.4. By Region (North America, Europe, Asia Pacific, South America, Middle East &

Africa)

5.2.5. By Company (2022)

5.3. Market Map

5.3.1. By Sales Channel

5.3.2. By Technology

5.3.3. By Application

5.3.4. By Region

6. NORTH AMERICA NANO-ENABLED PACKAGING MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value & Volume

6.2. Market Share & Forecast

6.2.1. By Sales Channel

6.2.2. By Technology

6.2.3. By Application

6.2.4. By Country

6.3. Pricing Analysis

6.4. North America: Country Analysis

6.4.1. United States Nano-enabled Packaging Market Outlook

6.4.1.1. Market Size & Forecast

6.4.1.1.1. By Value & Volume

6.4.1.2. Market Share & Forecast

6.4.1.2.1. By Sales Channel

6.4.1.2.2. By Technology

6.4.1.2.3. By Application

6.4.2. Mexico Nano-enabled Packaging Market Outlook

6.4.2.1. Market Size & Forecast

6.4.2.1.1. By Value & Volume

6.4.2.2. Market Share & Forecast

6.4.2.2.1. By Sales Channel

6.4.2.2.2. By Technology

6.4.2.2.3. By Application

6.4.3. Canada Nano-enabled Packaging Market Outlook

6.4.3.1. Market Size & Forecast

6.4.3.1.1. By Value & Volume

6.4.3.2. Market Share & Forecast

6.4.3.2.1. By Sales Channel

6.4.3.2.2. By Technology

6.4.3.2.3. By Application

7. EUROPE NANO-ENABLED PACKAGING MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value & Volume

7.2. Market Share & Forecast

7.2.1. By Sales Channel

7.2.2. By Technology

7.2.3. By Application

7.2.4. By Country

7.3. Pricing Analysis

7.4. Europe: Country Analysis

7.4.1. France Nano-enabled Packaging Market Outlook

7.4.1.1. Market Size & Forecast

7.4.1.1.1. By Value & Volume

7.4.1.2. Market Share & Forecast

7.4.1.2.1. By Sales Channel

7.4.1.2.2. By Technology

7.4.1.2.3. By Application

7.4.2. Germany Nano-enabled Packaging Market Outlook

7.4.2.1. Market Size & Forecast

7.4.2.1.1. By Value & Volume

7.4.2.2. Market Share & Forecast

7.4.2.2.1. By Sales Channel

7.4.2.2.2. By Technology

7.4.2.2.3. By Application

7.4.3. United Kingdom Nano-enabled Packaging Market Outlook

7.4.3.1. Market Size & Forecast

7.4.3.1.1. By Value & Volume

7.4.3.2. Market Share & Forecast

7.4.3.2.1. By Sales Channel

7.4.3.2.2. By Technology

7.4.3.2.3. By Application

7.4.4. Spain Nano-enabled Packaging Market Outlook

7.4.4.1. Market Size & Forecast

7.4.4.1.1. By Value & Volume

7.4.4.2. Market Share & Forecast

7.4.4.2.1. By Sales Channel

- 7.4.4.2.2. By Technology
- 7.4.4.2.3. By Application
- 7.4.5. Italy Nano-enabled Packaging Market Outlook
 - 7.4.5.1. Market Size & Forecast
 - 7.4.5.1.1. By Value & Volume
 - 7.4.5.2. Market Share & Forecast
 - 7.4.5.2.1. By Sales Channel
 - 7.4.5.2.2. By Technology
 - 7.4.5.2.3. By Application
- 7.4.6. Switzerland Nano-enabled Packaging Market Outlook
 - 7.4.6.1. Market Size & Forecast
 - 7.4.6.1.1. By Value & Volume
 - 7.4.6.2. Market Share & Forecast
 - 7.4.6.2.1. By Sales Channel
 - 7.4.6.2.2. By Technology
 - 7.4.6.2.3. By Application

8. ASIA-PACIFIC NANO-ENABLED PACKAGING MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value & Volume
- 8.2. Market Share & Forecast
 - 8.2.1. By Sales Channel
 - 8.2.2. By Technology
 - 8.2.3. By Application
 - 8.2.4. By Country
- 8.3. Pricing Analysis
- 8.4. Asia-Pacific: Country Analysis
 - 8.4.1. China Nano-enabled Packaging Market Outlook
 - 8.4.1.1. Market Size & Forecast
 - 8.4.1.1.1. By Value & Volume
 - 8.4.1.2. Market Share & Forecast
 - 8.4.1.2.1. By Sales Channel
 - 8.4.1.2.2. By Technology
 - 8.4.1.2.3. By Application
 - 8.4.2. India Nano-enabled Packaging Market Outlook
 - 8.4.2.1. Market Size & Forecast
 - 8.4.2.1.1. By Value & Volume
 - 8.4.2.2. Market Share & Forecast

- 8.4.2.2.1. By Sales Channel
- 8.4.2.2.2. By Technology
- 8.4.2.2.3. By Application
- 8.4.3. South Korea Nano-enabled Packaging Market Outlook
 - 8.4.3.1. Market Size & Forecast
 - 8.4.3.1.1. By Value & Volume
 - 8.4.3.2. Market Share & Forecast
 - 8.4.3.2.1. By Sales Channel
 - 8.4.3.2.2. By Technology
 - 8.4.3.2.3. By Application
- 8.4.4. Japan Nano-enabled Packaging Market Outlook
 - 8.4.4.1. Market Size & Forecast
 - 8.4.4.1.1. By Value & Volume
 - 8.4.4.2. Market Share & Forecast
 - 8.4.4.2.1. By Sales Channel
 - 8.4.4.2.2. By Technology
 - 8.4.4.2.3. By Application
- 8.4.5. Australia Nano-enabled Packaging Market Outlook
 - 8.4.5.1. Market Size & Forecast
 - 8.4.5.1.1. By Value & Volume
 - 8.4.5.2. Market Share & Forecast
 - 8.4.5.2.1. By Sales Channel
 - 8.4.5.2.2. By Technology
 - 8.4.5.2.3. By Application

9. SOUTH AMERICA NANO-ENABLED PACKAGING MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value & Volume
- 9.2. Market Share & Forecast
 - 9.2.1. By Sales Channel
 - 9.2.2. By Technology
 - 9.2.3. By Application
 - 9.2.4. By Country
- 9.3. Pricing Analysis
- 9.4. South America: Country Analysis
 - 9.4.1. Brazil Nano-enabled Packaging Market Outlook
 - 9.4.1.1. Market Size & Forecast
 - 9.4.1.1.1. By Value & Volume

- 9.4.1.2. Market Share & Forecast
 - 9.4.1.2.1. By Sales Channel
 - 9.4.1.2.2. By Technology
 - 9.4.1.2.3. By Application
- 9.4.2. Argentina Nano-enabled Packaging Market Outlook
 - 9.4.2.1. Market Size & Forecast
 - 9.4.2.1.1. By Value & Volume
 - 9.4.2.2. Market Share & Forecast
 - 9.4.2.2.1. By Sales Channel
 - 9.4.2.2.2. By Technology
 - 9.4.2.2.3. By Application

10. MIDDLE EAST AND AFRICA NANO-ENABLED PACKAGING MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value & Volume
- 10.2. Market Share & Forecast
 - 10.2.1. By Sales Channel
 - 10.2.2. By Technology
 - 10.2.3. By Application
 - 10.2.4. By Country
- 10.3. Pricing Analysis
- 10.4. MEA: Country Analysis
 - 10.4.1. South Africa Nano-enabled Packaging Market Outlook
 - 10.4.1.1. Market Size & Forecast
 - 10.4.1.1.1. By Value & Volume
 - 10.4.1.2. Market Share & Forecast
 - 10.4.1.2.1. By Sales Channel
 - 10.4.1.2.2. By Technology
 - 10.4.1.2.3. By Application
 - 10.4.2. Saudi Arabia Nano-enabled Packaging Market Outlook
 - 10.4.2.1. Market Size & Forecast
 - 10.4.2.1.1. By Value & Volume
 - 10.4.2.2. Market Share & Forecast
 - 10.4.2.2.1. By Sales Channel
 - 10.4.2.2.2. By Technology
 - 10.4.2.2.3. By Application
 - 10.4.3. UAE Nano-enabled Packaging Market Outlook

- 10.4.3.1. Market Size & Forecast
 - 10.4.3.1.1. By Value & Volume
- 10.4.3.2. Market Share & Forecast
 - 10.4.3.2.1. By Sales Channel
 - 10.4.3.2.2. By Technology
 - 10.4.3.2.3. By Application

11. MARKET DYNAMICS

11.1. Drivers

- 11.1.1. Strict laws and rules in the various packaging industry
- 11.1.2. Increasing demand from Pharmaceutical sector
- 11.1.3. Growing demand from Food & Beverage sector

11.2. Challenges

- 11.2.1. High cost of packaging
- 11.2.2. Lack of knowledge regarding advantages of Nano-enabled packaging

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Product Launches
- 12.2. Mergers & Acquisitions
- 12.3. Technological Advancements

13. GLOBAL NANO-ENABLED PACKAGING MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

- 15.1. Business Overview
- 15.2. Product Offerings
- 15.3. Recent Developments
- 15.4. Financials (In Case of Listed Companies)

15.5. Key Personnel

15.6. SWOT Analysis

15.6.1. Danaflex Nano LLC.

15.6.2. Amcor plc

15.6.3. Sonoco Products Co.

15.6.4. BASF SE

15.6.5. Avery Dennison Corp.

15.6.6. Tetra Pak International S.A.

15.6.7. DuPont Teijin Films

15.6.8. Sealed Air Corporation

15.6.9. Sidel Group

15.6.10. Innovia Films Ltd.

16. STRATEGIC RECOMMENDATIONS

I would like to order

Product name: Nano-enabled Packaging Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Sales Channel (Offline, Online), By Technology (Active Packaging, Intelligent and Smart Packaging, Others), By Application (Food and Beverages, Pharmaceutical, Personal Care, Others), By Region and Competition

Product link: <https://marketpublishers.com/r/N7F7E701BA1CEN.html>

Price: US\$ 4,900.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/N7F7E701BA1CEN.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