

Microencapsulation Market by Technology (Spray, Emulsion, Dripping), Core Material (Pharma & Healthcare Drugs, PCM, Food Additives, Fragrances), Application (Pharma, Household, Agrochemicals, Textiles), Shell Material, and Region - Global Forecast to 2025

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Abstracts

“The microencapsulation market is projected to grow at a CAGR of 12.9%.”

The global microencapsulation market was valued at USD 8.5 billion in 2020 and is projected to reach USD 15.5 billion by 2025, at a CAGR of 12.9% from 2020 to 2025. The market is driven by factors such as the increasing demand for fortified food products for the taste masking and enhanced shelf-life properties, the increasing demand for the controlled-release agrochemicals, growing construction and construction materials, and widespread applications in household & personal care. The high costs associated with the microencapsulated process, the regulations on the maximum quantity of microencapsulated ingredients that can be added to food & beverages, and the limited availability of natural sources of high-quality raw materials inhibit the growth of the microencapsulation market.

“By application, the food & beverage segment is projected to witness the fastest growth during the forecast period.”

The food & beverage segment is estimated to grow at the highest CAGR because of multiple applications of microencapsulation in the food industry, where it is used to provide protection and to achieve the desired results of the active ingredients. Some ingredients added for product fortification are encapsulated to mask the odor and taste

and to retain the products' taste. The increasing consumer demand for enhancing shelf-life in functional food products is also driving the food & beverage segment of the microencapsulation market.

“By technology, the emulsion technologies segment is projected to grow at the highest CAGR in the global microencapsulation market during the forecast period.”

Based on technology, the microencapsulation market is segmented into spray technologies, emulsion technologies, dripping technologies, and others. The emulsion technologies segment is projected to record the highest CAGR. The emulsion technologies segment includes three major technologies such as in-situ polymerization, coacervation, and sol-gel encapsulation. The demand for emulsion microencapsulation is increasing due to the simplicity of the process, process safety, and its cost efficiency.

“Asia Pacific is projected to be the fastest-growing region in the microencapsulation market, due to an increase in the demand for microencapsulated construction materials and rise in the consumption of fortified food & beverage products.”

The demand for microencapsulation for value-added functions is propelled by its increasing applications in various industries such as nutrition & pharmaceutical, food & beverage, personal care, and cosmetic. The technological developments in Asia Pacific countries, due to the developing infrastructure, have presented a potential scope for the automation of microencapsulation, as well as for improving its cost-effectiveness and output. Thus, there is a strong demand for microencapsulated materials from food & beverage manufacturers, pharmaceutical manufacturers, and textile and construction material manufacturers in this region.

The global microencapsulation market is segmented region-wise and includes a detailed analysis of each region. These regions include North America, Europe, Asia Pacific, and RoW.

Break-up of Primaries

By Company Type: Tier 1 -45%, Tier 2 -30%, and Tier 3 -25%

By Designation: C-level -40%, D-level -25%, and Others* -35%

By Region: North America - 30%, Europe - 25%, Asia Pacific - 25%, Rest of the World** - 20%

*Others include sales managers, marketing managers, and product managers.

**Rest of the World includes South America and the Middle East & Africa.

Leading players profiled in this report

BASF (Germany)

Royal FrieslandCampina (Netherlands)

Syngenta Crop Protection (Switzerland)

Koninklijke DSM (Netherlands)

Givaudan (Switzerland)

Firmenich (Switzerland)

Symrise (Germany)

International Flavors & Fragrances (US)

Sensient Technologies (US)

Lycored Corp. (UK)

Balchem Corporation (US)

Encapsys (US)

Arcade Beauty (US)

Koehler Innovative Solutions (Germany) Ingredion

Incorporation (US),

Kerry (Ireland),

Cargill (US),

Firmenich Incorporation (Switzerland),

Dupont (US),

Aveka Group (US),

Advanced Bionutrition Corp (US),

Tastetech Encapsulation Solutions (UK),

Sphera Encapsulation (Italy),

Clextral (France),

Vitasquare (Netherlands),

Microtek (US).

Research Coverage

This report segments the microencapsulation market on the basis of application, technology, core material, shell material, and region. In terms of insights, this research report focuses on various levels of analysis—competitive landscape, end-use analysis, and company profiles—which together comprise and discuss the basic views on the emerging & high-growth segments of the microencapsulation market, high-growth regions, countries, government initiatives, drivers, restraints, opportunities, and challenges.

Reasons to buy this report

To get a comprehensive overview of the microencapsulation market

To gain wide-ranging information about the top players in this industry, their product portfolio details, and the key strategies adopted by them

To gain insights about the major countries/regions in which the

microencapsulation market is flourishing

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