

Global Quantum Dots Microspheres (QDMS) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/GB3EF03F8042EN.html>

Date: September 2025

Pages: 123

Price: US\$ 3,132.00 (Single User License)

ID: GB3EF03F8042EN

Abstracts

According to our (Global Info Research) latest study, the global Quantum Dots Microspheres (QDMS) market size was valued at US\$ 167 million in 2024 and is forecast to a readjusted size of USD 339 million by 2031 with a CAGR of 10.5% during review period.

Quantum Dots Microspheres (QDMS) are a type of nanoscale fluorescent material composed of numerous quantum dots aggregated together, formed into microsphere shapes through specific nanotechnology, with a particle size ranging approximately between 100 to 400 nanometers. These microspheres not only retain the superior optical properties of the individual quantum dots, such as significant Stokes shift, strong resistance to photobleaching, narrow and symmetrical emission spectrum, and high overlap in the excitation spectrum, but also achieve multicolor luminescence and higher fluorescence intensity through the microsphere structure. These characteristics make Quantum Dots Microspheres (QDMS) exhibit higher sensitivity, lower background noise, better stability, and higher detection efficiency in application fields such as biological labeling, medical diagnostics, and optical sensors compared to traditional fluorescent materials.

This report is a detailed and comprehensive analysis for global Quantum Dots Microspheres (QDMS) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Quantum Dots Microspheres (QDMS) market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/g), 2020-2031

Global Quantum Dots Microspheres (QDMS) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/g), 2020-2031

Global Quantum Dots Microspheres (QDMS) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/g), 2020-2031

Global Quantum Dots Microspheres (QDMS) market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/g), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Quantum Dots Microspheres (QDMS)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Quantum Dots Microspheres (QDMS) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments.

Key companies covered as a part of this study include Thermo Fisher Scientific, CD Bioparticles, Alfa Chemistry, Nanografi Nano Technology, Sigma-Aldrich, Nanosys, Hefei Fluonano Biotechnology, Suzhou Xingshuo Nanotech, Shanghai Kundao Biotechnology, Beijing Zhongkekeyou Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Quantum Dots Microspheres (QDMS) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Carboxyl Quantum Dot Bead

Amine Quantum Dot Bead

Hydroxyl Quantum Dot Bead

Thiol Quantum Dot Bead

Others

Market segment by Application

Biomedicine

Optoelectronic Devices

Energy Storage

Chemical Detection

Others

Major players covered

Thermo Fisher Scientific

CD Bioparticles

Alfa Chemistry

Nanografi Nano Technology

Sigma-Aldrich

Nanosys

Hefei Fluonano Biotechnology

Suzhou Xingshuo Nanotech

Shanghai Kundao Biotechnology

Beijing Zhongkekeyou Technology

Hangzhou Biogenome Biotech

Xi'an Qiyue Biotechnology

Nanjing Janus New Materials

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 Quantum Dots Microspheres (QDMS) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Quantum Dots Microspheres (QDMS), with price, sales quantity, revenue, and global market share of Quantum Dots Microspheres (QDMS) from 2020 to 2025.

Chapter 3, the Quantum Dots Microspheres (QDMS) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Quantum Dots Microspheres (QDMS) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Quantum Dots Microspheres (QDMS) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Quantum Dots Microspheres (QDMS).

Chapter 14 and 15, to describe Quantum Dots Microspheres (QDMS) sales channel, distributors, customers, research findings and conclusion.

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