

Global Core?Shell Quantum Dots Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Core?Shell Quantum Dots market size is expected to reach \$ 608 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032). Core-shell quantum dots (CSQDs) are semiconductor nanoparticles with a core of one material surrounded by a shell of another, designed to boost the performance of standard quantum dots (QDs) by passivating surface defects, enhancing stability, and improving light emission (photoluminescence) for applications like LEDs, solar cells, and bioimaging. The shell, typically a wider bandgap material like ZnS around a CdSe core (e.g., CdSe/ZnS), confines excited electrons in the core, leading to brighter, more stable fluorescence and tunable colors.

Global production of core-shell quantum dots is projected to reach 37.7 tons in 2025, with an average price of \$10 per gram. Gross profit margins typically range from 45% to 70%.

The upstream of the core-shell quantum dot industry chain mainly includes metal precursors and chemical raw materials such as sulfides and selenides, high-purity organic ligands and solvents, as well as auxiliary materials required for reaction and purification. The purity, particle size control capability, and batch consistency of upstream raw materials directly affect the luminous efficiency and stability of quantum dots. The downstream is the core of industry value release, with applications concentrated in display and lighting, bio-imaging and in vitro diagnostics, sensing and detection, and novel optoelectronic devices, among which the display industry accounts for the majority of demand. Downstream display panel and terminal manufacturers pay close attention to luminous efficiency, color purity, lifespan, and environmental stability when procuring. In television and monitor applications, they emphasize compatibility with existing backlighting and packaging systems and long-term reliability, while in bio-imaging and diagnostics, they prioritize fluorescence stability, biosafety, and regulatory compliance. As quantum dot displays develop towards larger sizes and higher-end

features, downstream customers are increasingly demanding greater supply stability and large-scale delivery capabilities.

The industry development trend is characterized by an accelerated evolution towards cadmium-free or low-toxicity systems, continuous optimization of core-shell structures to improve quantum efficiency and anti-aging performance, and an expansion of application scenarios from displays to sensing, optical communication, and quantum information-related fields. Key driving factors include the continued demand for high color gamut and high brightness in high-end displays, upgrades in next-generation display technologies, advancements in bio-imaging and detection technologies, and downstream manufacturers' pursuit of differentiated materials. Obstacles include complex manufacturing processes, difficulty in achieving large-scale consistency control, costs still higher than some traditional fluorescent materials, and environmental regulations restricting heavy metal systems.

This report studies the global Core?Shell Quantum Dots production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Core?Shell Quantum Dots and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Core?Shell Quantum Dots that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Core?Shell Quantum Dots total production and demand, 2021-2032, (Kg)

Global Core?Shell Quantum Dots total production value, 2021-2032, (USD Million)

Global Core?Shell Quantum Dots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kg), (based on production site)

Global Core?Shell Quantum Dots consumption by region & country, CAGR, 2021-2032 & (Kg)

U.S. VS China: Core?Shell Quantum Dots domestic production, consumption, key domestic manufacturers and share

Global Core?Shell Quantum Dots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kg)

Global Core?Shell Quantum Dots production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kg)

Global Core?Shell Quantum Dots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kg)

This report profiles key players in the global Core?Shell Quantum Dots market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nanosys, Shoei Chemical, Nanoco

Technologies, Avantama, UbiQD, Hansol Chemical, Hangzhou Najing Technology Co., Ltd., Mesolight, Ocean NanoTech, NNCrystal US Corporation, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Core?Shell Quantum Dots market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kg) and average price (US\$/g) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Core?Shell Quantum Dots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Core?Shell Quantum Dots Market, Segmentation by Type:

Type-I

Inverted Type-I

Type-II

Type-III

Global Core?Shell Quantum Dots Market, Segmentation by Core Material:

II-VI Group Semiconductor Core

III-V Group Semiconductor Core

IV-VI Group Semiconductor Core

IV Group Semiconductor Core

Perovskite Core

Global Core?Shell Quantum Dots Market, Segmentation by Shell Material:

Passivated Shell

Functional Shell

Alloy Shell

Multilayer Composite Shell

Global Core?Shell Quantum Dots Market, Segmentation by Number of Shell Layers:

Single Shell

Double Shell

Multilayer Shell

Gradient Shell

Global Core?Shell Quantum Dots Market, Segmentation by Application:

Biomedical

Optoelectronic Display

Energy

Environmental Monitoring

Other

Companies Profiled:

Nanosys

Shoei Chemical

Nanoco Technologies

Avantama

UbiQD

Hansol Chemical

Hangzhou Najing Technology Co., Ltd.

Mesolight

Ocean NanoTech

NNCrystal US Corporation

Cytodiagnosics

CD Bioparticles

PlasmaChem GmbH

Quantum Solutions

Helio Display Materials

Nanolumi

Key Questions Answered:

1. How big is the global Core?Shell Quantum Dots market?
2. What is the demand of the global Core?Shell Quantum Dots market?
3. What is the year over year growth of the global Core?Shell Quantum Dots market?
4. What is the production and production value of the global Core?Shell Quantum Dots market?
5. Who are the key producers in the global Core?Shell Quantum Dots market?
6. What are the growth factors driving the market demand?

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