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# Global Insoluble Quantum Dots Market Growth 2026-2032

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## Abstracts

The global Insoluble Quantum Dots market size is predicted to grow from US$ 132 million in 2025 to US$ 200 million in 2032; it is expected to grow at a CAGR of 6.2% from 2026 to 2032.

Insoluble quantum dots (QDs) are quantum dot materials that do not exhibit good dispersibility in common organic solvents, water, or alcohols, typically existing as dry powder or aggregates. These QDs retain their core optical and electrical properties, but due to short or unmodified surface ligands, they exhibit poor stability in solution, requiring post-processing (such as high-temperature melting, polymer coating, and mechanical dispersion) before application in device fabrication. The product is priced at approximately $220 per gram, with global sales of approximately 582 kilograms.

The upstream of the insoluble quantum dot industry chain includes semiconductor precursors (such as Cd, In, and Pb), surface ligands and crystallization aids (such as thiols and phosphate esters), and nanoreactor equipment for high-temperature synthesis; the downstream encompasses LED packaging plants, optical film and thin film manufacturers, security material and ink companies, as well as research institutions and university laboratories. The market is accelerating its transition to cadmium-free, environmentally friendly systems (such as InP and perovskite), while simultaneously driving improvements in powder stability and dispersibility, and deep integration with thermosetting resins and UV curing systems to enhance high-temperature and photothermal stability. Overall gross margins remain between 35% and 55%, indicating strong profit potential and the ability to upgrade technology.

United States market for Insoluble Quantum Dots is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

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China market for Insoluble Quantum Dots is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Insoluble Quantum Dots is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Insoluble Quantum Dots players cover Avantama, Nanosys, Nanoco Group, UbiQD, Quantum Solutions, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

## Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Insoluble Quantum Dots Industry Forecast” looks at past sales and reviews total world Insoluble Quantum Dots sales in 2025, providing a comprehensive analysis by region and market sector of projected Insoluble Quantum Dots sales for 2026 through 2032. With Insoluble Quantum Dots sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Insoluble Quantum Dots industry.

This Insight Report provides a comprehensive analysis of the global Insoluble Quantum Dots landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Insoluble Quantum Dots portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Insoluble Quantum Dots market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Insoluble Quantum Dots and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Insoluble Quantum Dots.

This report presents a comprehensive overview, market shares, and growth opportunities of Insoluble Quantum Dots market by product type, application, key manufacturers and key regions and countries.

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# Market Segmentation

## Segmentation by Type:

CdSe

InP

PbS

Others

## Segmentation by Emission Color:

Blue Light (450–490 nm)

Green Light (500–540 nm)

Red Light (600–650 nm)

Near-Infrared Light (700–850 nm)

## Segmentation by Particle Size Distribution:

Monodisperse (<10% Coefficient of Variation)

Broadly Distributed

## Segmentation by Application:

LED Phosphor Composite

Optical Film Materials

3D Printing Materials

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Security and Anti-Counterfeiting

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

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Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Avantama

Nanosys

Nanoco Group

UbiQD

Quantum Solutions

LG

Samsung

BOE

TCL

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Mesolight

BOHR

QD Laser

Quantum Materials Corp

Qlight Nanotech

Solaronix

## Key Questions Addressed in this Report

What is the 10-year outlook for the global Insoluble Quantum Dots market?

What factors are driving Insoluble Quantum Dots market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Insoluble Quantum Dots market opportunities vary by end market size?

How does Insoluble Quantum Dots break out by Type, by Application?

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