Optical Coatings Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-06-14 | 147 pages | IMARC Group

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Report description:

The global optical coatings market size reached US$ 14.9 Billion in 2022. Looking forward, IMARC Group expects the market to reach US$ 23.0 Billion by 2028, exhibiting a growth rate (CAGR) of 7.2% during 2023-2028. The increasing sales of consumer electronics, rising demand for luxury vehicles, and the growing need for energy efficient lighting represent some of the key factors driving the market.

Optical coatings are thin layers of material applied to optical components, such as lenses, mirrors, prisms, and other surfaces that interact with light. They are designed to manipulate the way light interacts with the optical surface to improve its performance and characteristics. They are manufactured from various materials, including metal oxides, fluorides, dielectric materials, and polymers. Their performance relies on several factors, including the thickness and composition of the coating, the angle of incidence of the light, and the wavelength of the light. Optical coatings assist in improving the durability and longevity of an optical component by protecting it from scratches, abrasion, and other damage. They can also reduce the amount of distortion caused by light passing through an optical component, which results in sharper and more precise images.

Optical Coatings Market Trends:
Optical coatings are employed in the consumer electronics industry to improve the appearance, performance, and aesthetics of various devices, which makes them more functional, user friendly, and visually appealing. This, coupled with the increasing sales of consumer electronics products, such as smartphones, tablets, laptops, television (TV), cameras, and gaming devices, represents one of the major factors supporting the market growth around the world. Moreover, there is a rise in the use of optical coatings in the automotive industry for manufacturing various components, such as windshields, windows, mirrors, lights, lenses, dashboards, and other interior parts, to enhance their optical performance and safety. This, along with the growing demand for luxury vehicles due to rapid urbanization and inflating income levels, is influencing the market positively. In addition, the increasing adoption of optical coatings in the military and defense sectors on the lenses of night vision and thermal imaging systems to enhance their performance in low light conditions and minimize glare and reflection is favoring the growth of the

market. Apart from this, the rising usage of anti-reflective optical coatings in the construction industry on glass windows and other surfaces to minimize glare and improve visibility which makes them more comfortable and safer for building occupants, is contributing to the market growth. Furthermore, the growing demand for energy efficient lighting, which requires optical coatings to improve light transmission and reduce energy consumption, is creating a positive outlook for the market.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each sub-segment of the global optical coatings market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, technology and end use industry.

Type Insights:

Anti-reflective Coatings
Reflective Coatings
Filter Coatings
Conductive Coatings
Electrochromic Coatings
Others

The report has provided a detailed breakup and analysis of the optical coatings market based on the type. This includes anti-reflective coatings, reflective coatings, filter coatings, conductive coatings, electrochromic coatings, and others. According to the report, anti-reflective coatings represented the largest segment.

Technology Insights:

Vacuum Deposition
E-Beam Evaporation
Sputtering Process
Ion-Assisted Deposition
Others

A detailed breakup and analysis of the optical coatings market based on the technology has also been provided in the report. This includes vacuum deposition, e-beam evaporation, sputtering process, ion-assisted deposition, and others. According to the report, vacuum deposition accounted for the largest market share.

End Use Insights:

Electronics and Semiconductor
Aerospace and Defense
Automotive and Transportation
Telecommunications
Construction and Infrastructure
Solar Power
Healthcare
Others

The report has provided a detailed breakup and analysis of the optical coatings market based on the end use. This includes

electronics and semiconductor, aerospace and defense, automotive and transportation, telecommunications, construction and infrastructure, solar power, healthcare, and others. According to the report, electronics and semiconductor represented the largest segment.

Regional Insights:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others) was the largest market for optical coatings. Some of the factors driving the Asia Pacific optical coatings market included product innovations, merger and acquisition (M&A), rising adoption of different marketing strategies, etc.

Competitive Landscape:
The report has also provided a comprehensive analysis of the competitive landscape in the global optical coatings market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include Abrisa Technologies, Artemis Optical Limited, Carl Zeiss AG, DuPont de Nemours Inc., Edmund Optics Inc., Inrad Optics Inc., Materion Corporation, Newport Corporation (MKS Instruments Inc.), Nippon Sheet Glass Co. Ltd., PPG Industries Inc., Reynard Corporation, Schott AG, Zygo Corporation (Ametek Inc.), etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:
How has the global optical coatings market performed so far, and how will it perform in the coming years?
What are the drivers, restraints, and opportunities in the global optical coatings market?
What is the impact of each driver, restraint, and opportunity on the global optical coatings market?
What are the key regional markets?
Which countries represent the most attractive optical coatings market?
What is the breakup of the market based on the type?
Which is the most attractive type in the optical coatings market?
What is the breakup of the market based on the technology?
Which is the most attractive technology in the optical coatings market?
What is the breakup of the market based on the end use industry?
Which is the most attractive end use industry in the optical coatings market?
What is the competitive structure of the global optical coatings market?
Who are the key players/companies in the global optical coatings market?

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