

## Report Information

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# Optical Coating Market Research Report – Forecast to 2030

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## Description:

## Optical Coatings Market Overview

The optical coatings market share was valued at a global market value worth USD 12.6 billion during the historic forecast period that had ended in 2019. For the ongoing forecast period of 2021-2030, the optical coatings market is projected to reach USD 19.0 billion during the forecast period of 2021-2030, at a global CAGR of 8.5%.

The optical coatings market trends are witnessing a high degree of growth owing to the growing demand for optical coatings in industrial applications. The emerging economies of APAC and Europe are projecting a huge demand degree and hence, are the major drivers for the growth of the optical coatings market.

## COVID 19 Analysis

Since the presence of the Covid pandemic, there have been a ton of changes in the manner individuals carried on with their lives, in the way the corporate world capacities, and in the way, the business and market units capacity and oblige the requirements of the particular crowd. The optical coatings market is none other and is confronting the evil impacts brought about by the pandemic, also. The interest is declined as the medical care specialist organizations and clinical staff like specialists and attendants are being redirected to treat individuals who have been determined to have the Covid infection. Additionally, the pandemic has pushed individuals to achieve significant changes in their method of essential living and modify their inclinations towards better and agreeable means. The worldwide legislatures are forcing severe limitations like the burden of both long-lasting and brief lockdown so the inspiration pace of the pandemic descends and life can be gone to predictability by and by.

The lockdown inconvenience and severe utilitarian limitations are functioning as the pace of energy is diminishing and the experts are returning to serve their insight in their subject matter. Additionally, the noticeable players of the market are expanding their interest in the innovative work offices to think of items and administrations that will help in giving a superior goal to the rising requirements of the interest group during the ongoing forecast period that will be ending in 2028.

## Competitive Landscape

The rising competition in the optical coatings market includes the developments of the following companies:

- Newport Corporation (US)
- PPG Industries Ohio, Inc. (US)
- Abrisa Technologies (US)
- Artemis Optical Limited (UK)
- Inrad Optics (US), Inc.
- Nippon Sheet Glass Co., Ltd. (Japan)
- ZEISS International (Germany)

## Market Dynamics

### Drivers

The Optical Coatings market size is expanding owing to its expanding use in semiconductors, alongside others like high-temperature lamp tubing, telecommunication, and optics, along with microelectronics industries, as well. The optical coatings are further used in the electronics and the semiconductor industry that have to withstand the high-temperature gradients inclusive of the high rates of heat transfer in rapid thermal processing. These processes and techniques are commonly applied to printed circuit board (PCB) coating, alongside others like ICs, and wafers that

help in modification of their properties. Optical coatings are known to enable various parts of a semiconductor that can withstand extreme temperatures of wafer processing.

## Restraints

The optical coating market includes manufacturing processes that include the use of various raw materials inclusive of oxides like aluminum, zirconium, titanium, and selenium, fluorides like strontium, calcium, and magnesium, and metals like copper, gold, and silver. The raw material and resource market for optical coatings are highly volatile that are known to have a major impact on the price fluctuations of the metals and oxides that include TiO<sub>2</sub>, indium, gold, copper, and silver. The rare availability and prices of raw materials, especially those of metals and oxides, fluctuate, and hence, the rise in their prices can adversely affect the manufacturing and production cost. Indium is considered the key component that is used to manufacture transparent conductive coatings. These facts might restrain the market from growing as per the predictions for the forecast period that will be ending in 2028.

## Technology Analysis

The growing demand for automotive electronics in the process of transportation end-use industry is likely to be increasing due to the rising income levels in the global market premises. There has been an increasing need for a safe and convenient drive alongside the emergence of intelligent transport systems, and a substantial growing need to minimize environmental pollution. The Optical Coatings industry forms an essential part of advanced automotive electronics systems and devices in the global market premises. There has been an emergence of advanced driver assistance, along with the development of communication technology and entertainment system features, which are also being recognized for creating an opportunity for the optical coatings market to expand during the forecast period that will be ending in 2030.

## Study Objectives

- The optical coatings market report aims to break down the past patterns of the market tasks followed by the effect of the Covid flare-up on the working of the market. Further, the report intends to feature the elements accessible to the market as drivers that will lead the way of the players towards gigantic worldwide extension and examine the potential downsides and limitations that will deliver obstacles for the market in transit of its development.
- The optical coatings report aims to concentrate on the rising requirements of the ideal interest group that is spread across the worldwide scale which further, brings about the market patterns for the ongoing forecast period that ends in 2030. Further, the report has a target to concentrate on the premise on which the worldwide market has been bifurcated and the assets accessible that will assist the market with developing per the figures anticipated by the business chiefs for the period.
- To optical coatings market report aims to understand the rising cutthroat degree in the worldwide market situation dependent on the pooled endeavors delivered by the key market players as the new advancements attempted by them during the ongoing forecast period that will be ending in 2030.

## Segment Overview

The Optical Coatings Market has been segmented and includes the following:

### By Technology

The technology segment includes vacuum deposition, E-Beam Evaporation, Sputtering Process, and Ion-Assisted Deposition (IAD).

### By Type

The optical coatings market has the type segment that includes AR Coatings, High Reflective Coatings, Transparent Conductive Coatings, Filter Coatings

Beamsplitter Coatings, EC Coatings, and others like polarized coating, optical protective, and UV coatings.

### By End-Use Industry

The end-use industry includes Electronics & Semiconductor, Military, and Defense

Transportation, Telecomm or Optical Communication, Infrastructure, Solar Power, Medical, amongst others.

## Regional Analysis

North America is likely to emerge as the largest market for the optical coatings industry during the forecast period that will be ending in 2028. This growth is attributed to the growing global demand from the electronics and semiconductor industry and a huge increase in the contribution of government that will impact the global expansion of the North American market in the current forecast period that will be ending in 2030.

### Recent Developments

**Jan 2021** Medical Technologies Innovation Facility (MTIF) and Quantum Design, UK and Ireland (QD) are have announced they have arrived into a joint agreement affording clientele the capability to view and use the JA Woollam IR VASE II Spectroscopic Ellipsometer. Certainly, this is only one of two such gadgets in the UK and the only one now made accessible to customers in the UK in this way. Ellipsometry's nature (comparatively fast and non-destructive) makes it perfect for diagnostics in numerous sectors such as optical coating stacks, biological and medical coatings, photovoltaics, nano-photonics, semiconductor devices, flat panel displays, construction materials, protective layers as well as real-time quality expertise. **June 2020** Materion, an optical coatings creator, participated in a definitive agreement to obtain Optics Balzers (Balzers, Liechtenstein), which concentrates on optical thin-film coatings all-cash transaction expected to close in the third quarter of 2020. The two companies' structures match one another, as Optics Balzers will benefit from Materion's sales strength in the US, and Materion will profit from Optics Balzers' market spot in Europe. The present market expansion made clear that Optics Balzers could achieve its development targets with a supplementary location in the US—furthermore, the optics plant in Malaysia fits into Materion's roadmap. **July 2020** Berghof Fluoroplastic Technology, a holding of the Berghof Group, has declared it has taken over the business undertakings of OptoPolymer. The purchase, solemnized July 1, will allow Berghof Fluoroplastics to increase its portfolio to incorporate optical coatings with barium sulfate. Since its establishment in 2003, OptoPolymer has advanced diffuse reflecting material with optical functions for many industrial operation areas. These consist of reflection standards, coating material for incorporating spheres, background illumination of displays, laser cavities, coating services, and optical measuring gears. **October 28, 2019** Intevac, Inc., a leading supplier of thin-film processing systems, launched its VERTEX Marathon system which is a high-productivity thin-film platform targeted for the display cover glass devices. Intevac also launched scratch-protection protective coating solution named DiamondClad which delivers enhanced scratch protection and durability, and has a high optical clarity. DiamondClad produces a multi-layer, diamond-like carbon film which is claimed to be superior to the standard anti-fingerprint (AF) coated display cover glass. Additionally, DiamondClad is also claimed to be better than AF-coated glass during testing with perspiration, denim, and abrasive sand. The global market is witnessing the rising prevalence alongside the continuous degree of development in the electronics and semiconductor industry. It has increased the use of new-generation wafers in various market applications like semiconductors, which is expected to drive the demand for high purity optical coatings market during the ongoing forecast period that will be ending in 2028. Thus, it is emerging as the most preferred material that helps to enhance the performance of products. The Electronics and semiconductor end-use industry segment, as a part of the global market holds a major market share of the overall optical coating market share owing to the increasing demand for highly resistant and high dielectric strength coating layers. These factors are expected to fuel the growth of the optical coatings market during the forecast period that will be ending in 2028. The AR coatings type segment, as a part of the optical coatings market, holds a major market share of the overall optical coating market owing to its expanding ability to provide high-quality coatings along with a high degree of transmission power and low reflection power on components. The components include lenses, mirrors, and display screens that are used in various industrial and consumer applications. The applications are likely to have a better holding in the period. These factors are fueling the expansion rate of the AR coatings in the global optical coatings market for the forecast period of 2021-2028.

## Report Overview

The optical coatings market report conducts deep market analysis and study of the trends that will help the market to grow and cover the losses that have been incurred during the outbreak of the novel coronavirus pandemic. The report covers the market trends that will give rise to the production, manufacturing, and growth of the market amid global competition.

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