

## Report Information

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# Ceramic Coating Market Research Report - Global Forecast till 2027

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## Description:

### Global Ceramic Coating Market Overview

The Ceramic Coating Market Size was valued at USD 10.42 Billion in 2022. The Ceramic Coating market industry is projected to grow from USD 11.01 Billion in 2023 to USD 19.19 Billion by 2030, exhibiting a compound annual growth rate (CAGR) of 7.8% during the forecast period (2023 - 2030). Ceramics are used as transparent conductive coatings (TCOs) when making solar panels. At present, TCOs are primarily based on indium-tin-oxide (ITO), which is by far the most common TCO, followed by aluminum-doped zinc oxide (AZO) and tin oxide (FTO) doped with fluorine. Butvskite-based solar cells are also being produced as the next generation of photovoltaic high-efficiency cells. This ceramic solar panel coating protects the panel glass from salt spray or mineral particles from corrosion and staining. Such coatings can also be used on solar mirrors to withstand harsh conditions from subzero to extremely hot environments. The installation of solar photovoltaic systems in residences, commercial buildings, and industrial plants is likely to expand during the forecast period. Thus, the growing usage of solar panels is likely to boost demand.

Global Ceramic Coating Market

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

### Ceramic Coating Market Trends

## Increasing Demand for Ceramic Coatings in Aerospace & Defense Industry to Fuel the Market.

The aviation sector primarily includes commercial aircraft manufacture, selling, and operation, whereas defense relies on the nation's need for military weapons and systems designed for land, sea, and air operations. In 2019, the commercial aerospace industry encountered reductions in deliveries due to production-related problems in some aircraft models. For the commercial space industry, 2020 is likely to be a year of major milestones as the sector may see steady investment in new and established space technologies. Although the growth of the aerospace & defense industry is primarily driven by the U.S., over the past years few other countries such as China, France, India, Japan, the Middle East & Africa, and the UK have been contributing to the industry's success.

Additionally, For aircraft propulsion, auxiliary power systems, and other applications, turbine engines are mostly used. Thermal barrier coatings are isolating ceramic layers that are applied in a heat engine to metallic constituents. The low conductivity ceramic coatings insulate the underlying portion of air-cooled from the engine's hot gases. Ceramic coatings applied on gas turbine engines to airfoils have lowered the temperature of components by as much as 1900 C.

Ceramic coatings are used as an incremental approach to improving the thrusts and efficiencies of aero-engines and gas turbines on the ground. These thermally insulating layers require temperature reduction by ~1500 C, which is used to increase the temperature parameters of aero-engine disks and blades and the aero-engine gas turbine parts combustor liners. Failure is not an option for aerospace components. Thus, the major application of these coatings in turbine engines is driving the ceramic coatings market trends.

### Ceramic Coating Market Segment Insights

## Ceramic Coating Type Insights

The Ceramic Coating market segmentation, based on Type, includes oxide, carbide, nitride, and others. The oxide segment held the major market share and is likely to maintain its dominance during the forecast period. As compared to other counterparts such as carbide and nitride, oxides are cheaper. Oxide ceramic coatings protect metals against corrosion and are used as decorative and electrical insulators. Oxide ceramic coatings can be applied to steel and cast iron as well as to aluminum, copper, and zinc alloys.

The carbide segment is expected to expand at a rapid pace during the forecast period. Carbide ceramic coatings are usually used for abrasion, corrosion, galling, and fretting resistance to wear. Using a plasma spray powder device, almost all carbides, oxides, borides, and nitrides can be coated, as the plasma temperature is more than the melting point of any known material.

## Ceramic Coating Method Insights

Based on Method, the Ceramic Coating market segmentation includes physical vapor deposition (PVD), chemical vapor deposition (CVD), thermal spray, and others. The thermal spray segment held the key share of the market and is projected to expand rapidly during the forecast period. The most common technique of ceramic coatings is thermal spraying as most often they are made of metal oxides and their main use is for wear resistance. The application of thermally sprayed ceramics to metal substrates offers improved surface properties. Examples include thermal or electric insulation and resistance to wear and corrosion.

Physical vapor deposition (PVD) is a thin-film coating process that usually produces coatings of ceramics with a thickness between 1 and 10µm range. PVD coatings are sometimes stronger and more resistant to corrosion than the electroplating process applied to coatings.

## Ceramic Coating End-Use Insights

Based on End-Use, the Ceramic Coating market segmentation includes Transportation & Automotive, Energy, Aerospace & Defense, Industrial Goods, Healthcare, and Others. The transportation & automotive segment accounted for the prime share of the market. The ceramic coating is applied to the body of a vehicle and forms a chemical bond with factory paint. When coated, it can be extracted only by abrasion and offers good protection to the vehicle's surface. They can protect the vehicle from dirt, chemical contaminants, and scratches. A ceramic- the coated vehicle is also easier to clean, and its body panels remain smooth and abrasive-free.

The energy segment also held a significant share of the market. Ceramic coatings are majorly used in solar panels. They protect the solar panel glass from salt spray or mineral deposits that may cause corrosion and staining. These coatings also provide hydrophobic and self-cleaning properties to the surface of solar panels.

**Figure 2: Ceramic Coating Market, by Type, 2023 & 2030 (USD Billion)**

Ceramic Coating Market, by Type, 2023 & 2030 (USD Billion)

**Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review**

## Ceramic Coating Regional Insights

By region, the study provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. APAC is anticipated to dominate the market during the assessment tenure. The region is likely to expand at a CAGR of 6.5% during the prediction time. The growing demand from developing countries such as India, China, and Japan is likely to play a salient role in developing the industry during the forecast period. The rapid expansion of the steel industry and the automotive sector is predicted to augment the market during the projection tenure. Furthermore, the surging demand for ceramic coatings from aerospace, oil & gas, and energy power is expected to boost the market size in the coming time.

**Figure 3: CERAMIC COATING MARKET SHARE BY REGION 2023 (%)**

CERAMIC COATING MARKET SHARE BY REGION 2023 (%)

**Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review**

Europe is expected to account for the second-largest market share during the forecast period. The expansion of the region can be attributed to the rapid development of large-scale automotive manufacturers and the rising R&D investment from local manufacturers to develop ceramic coatings technology. The region is estimated to acquire a market value of USD 2 billion while flourishing at a CAGR of 3% by 2027.

North America is estimated to flourish at a CAGR of 4% during the forecast tenure. The region is anticipated to procure a market share of 20% in the coming time. The expansion of the region can be attributed to the rapid development of the automotive sector. Furthermore, the ongoing development in the aerospace sector can be another salient cause that can drive the market growth in the region during the assessment time.

## Ceramic Coating Key Market Players & Competitive Insights

Major market players are spending a lot of money on R&D to increase their product lines, which will help the Ceramic Coating market grow even more. Market participants are also taking a range of strategic initiatives to grow their worldwide footprint, with key market developments such as new product launches, contractual agreements, mergers and acquisitions, increased investments, and collaboration with other organizations. Competitors in the Ceramic Coating industry must offer cost-effective items to expand and survive in an increasingly competitive and rising market environment.

The major market players are investing a lot of money in R&D to expand their product lines, which will spur further market growth for Ceramic Coating. With significant market development like new product releases, contractual agreements, mergers and acquisitions, increased investments, and collaboration with other organizations, market participants are also undertaking various strategic activities to expand their presence. To grow and thrive in a market climate that is becoming more competitive and growing, competitors in the Ceramic Coating industry must offer affordable products.

Manufacturing locally to cut operating costs is one of the main business tactics manufacturers use in the Ceramic Coating industry to benefit customers and expand the market sector. The Low-Profile Additives market has recently given medicine some of the most important advantages. Major Ceramic Coating market players, including Morgan Advanced Materials (U.K.), APS Materials, Inc. (U.S.), Bodycote (U.K.), Praxair S.T. Technology, Inc. (U.K.), Aremco Products, Inc. (U.S.), and others, are attempting to increase market demand by funding R&D initiatives.

APS is a provider of spray coating solutions. It offers metallic, ceramic, and polymer coatings, and thermal sprays for biomedical, automotive, aerospace sectors, and more.

Also, Aremco Products is a company that develops and produces high-temperature materials. It offers machinable ceramics, ceramic, and graphite adhesives, potting and casting materials, specialty, and protective coatings, mounting adhesives, conductive compounds, temperature tapes, etc. The company caters to the automotive, aerospace, chemical processing, metallurgical, power generation, and semiconductor industries.

## Key Companies in the Ceramic Coating market include

- Zochem (US)
- Morgan Advanced Materials (U.K.)
- APS Materials, Inc. (U.S.)
- Bodycote (U.K.)
- Praxair S.T. Technology, Inc. (U.K.)
- Aremco Products, Inc. (U.S.)
- Akzo Nobel N.V. (The Netherlands)
- Saint-Gobain (France)
- MBI Coatings (U.S.)
- Nano-Care Deutschland AG (Germany)
- Ceramic Polymer GmbH (Germany)
- Oerlikon Group (Switzerland)

## Ceramic Coating Industry Developments

**January 2021**, GoPivot, the leading mobile-first corporate wellness, and safety platform, announced that its client Morgan Advanced Materials has extended its partnership. The extended partnership will also include an employee recognition program.

**Apr 2021**, Tata Motors, India's foremost auto brand, recently introduced an industry-first service offering of Ceramic Coating with the all-new Safari model. This is a cutting-edge hydrophilic formulation technology to revive the appearance of Tata cars. The cars are available for 28,500 for U.V.s, and this service will be offered at all Tata Motors authorized dealerships. Tata Motors will also extend this exclusive service to all other Tata passenger vehicles at prices changing as per their particular segments.

## Ceramic Coating Market Segmentation

### Ceramic Coating Type Outlook

- Oxide
- Carbide
- Nitride
- Others

### Ceramic Coating Method Outlook

- Thermal Spray
- Physical Vapor Deposition (PVD)
- Chemical Vapor Deposition (CVD)
- Others

### Ceramic Coating End-Use Outlook

- Transportation & Automotive
- Energy
- Aerospace & Defense
- Industrial Goods
- Healthcare
- Others

### Ceramic Coating Regional Outlook

- North America
  - US
  - Canada

- Europe
  - Germany
  - France
  - UK
  - Italy
  - Spain
  - Rest of Europe
- Asia-Pacific
  - China
  - Japan
  - India
  - Australia
  - South Korea
  - Australia
  - Rest of Asia-Pacific
- Rest of the World
  - Middle East
  - Africa
  - Latin America

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