

Cold gas spray coatings Market: Segmented by Technology (High pressure and Low pressure), By End user (Petrochemical, Marine, Power Generation, Transportation, Civil Building and Infrastructure, Food and Beverage Plants and Others), and Region – Global Analysis of Market Size, Share & Trends for 2019–2020 and Forecasts to 2030

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Abstracts

[179+ Pages Research Report] Global Cold gas spray coatings Market to surpass USD 3.2 billion by 2030 from USD 1.1 billion in 2020 at a CAGR of 5.4% in the coming years, i.e., 2021-30.

Product Overview

Cold gas spray coating is a sort of thermal spray technique. Powder particles are accelerated at extremely high speeds below their melting point temperatures using supersonic compressed gas. The cold gas spray coating process provides a high deposition ratio and an excellent coating bond strength. Coatings are utilized to fix corroded and structural aspects that cannot be repaired via welding. The cold gas spray process may collect a variety of materials, including composites, polymers, metals, and ceramics, and is typically used in four fields: dimensional restoration, electrical and thermal conductivity, corrosion prevention, and solder pre-placing. Because it increases hardness, lowers porosity, improves adhesion strength, and keeps feedstock powder properties, cold gas spray coating is preferred over other thermal spray methods.

Market Highlights

Global Cold gas spray coatings market is expected to project a notable CAGR of 5.4% in 2030.

Over the forecast period, increased usage of cold gas spray coating in aerospace and automotive aftermarket repair and maintenance activities is expected to aid market expansion. Cold spray coating technology, which has been utilized in different industries for decades as a coating method, has recently revolutionized the component repair field, particularly in the aerospace industry.

Global Cold gas spray coatings: Segments

High-pressure segment to grow with the highest CAGR during 2020-30

Global Cold gas spray coatings market is segmented by Technology into High pressure and Low pressure. High-pressure segment held the largest market share in the year 2020. High-pressure cold gas spray coating technique is widely utilized in a variety of industries, including aerospace, automotive, and electronics, as a surface repair and coating technology. It is mostly utilized in the aforementioned industries to repair metallic components in order to improve performance and extend the operating life of equipment. High-pressure cold gas spray coating method combines a pressure of up to 50 bar with an axial injection of feedstock particles heated to 11000 C, resulting in a faster metal deposition rate and lower oxide and porosity levels throughout the material build-up process.

Transportation segment to grow with the highest CAGR during 2020-30

Global Cold gas spray coatings market is divided by end-user into Petrochemical, Marine, Power Generation, Transportation, Civil Building and Infrastructure, Food and Beverage Plants and Others. Over the forecast period, the transportation segment is projected to expand at the fastest pace. Over the forecast period, the growing demand for cold gas spray coatings for use in painting and repairing various components in the aerospace and automotive industries is expected to drive up demand for cold gas spray coatings. Cold gas spray coatings have a low porosity, good bonding, and an oxide-free coating in the solid-state and at low temperatures, making them ideal for use in the automotive and aerospace sectors.

Market Dynamics

Drivers

Rising industrialization and increased demand in various applications

The growing application of cold gas spray coatings in a wide range of materials for specific applications, including repair and surface finishing, is a key factor driving market

growth. Other key factors driving market growth include rising consumer electronics demand, rising disposable income, rapid urbanization, expanding middle class and shifting consumer spending priorities, rising automotive production in APAC, rising MEA aviation industry growth, and rising consumer electronics demand. Furthermore, rising market research and development efforts, as well as an increase in market research and development activities, will provide new chances for the cold gas spray coating market in the forecast year.

Increased investment in research and development and technology adoption

The increased use of cold gas spray painting by the aerospace and automotive industries has given the market a head start in economically developing nations. The broad application range of cold gas spray coating at a relatively low cost is attracting end-users attention in the industry. The usage of nanostructured and formless materials in various end-user production units is expanding the cold gas spray coating industry's potential. The technology involves no chemical heating or melting at any point during the process, making it an environmentally benign technology that emits no hazardous gases. The recyclable end waste of cold gas spray painting is opening the path for long-term adoption of technology and is expected to generate significant product demand throughout the projection period.

Restraint

Tariffs imposed by government

Temporary halting mining operations around the world, government-mandated shutdowns, and several import tariffs imposed by the US government as a result of the ongoing trade war between the US and China are among the major factors acting as restraints and will pose a further challenge to the growth of the cold gas spray coating market during the forecast period.

Global Cold gas spray coatings: Key Players

Inovati

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

Plasma Giken Co., Ltd.

VRC Metal Systems, LLC

Flame Spray Technologies B.V.

Curtiss-Wright Surface Technologies

Rus Sonic Technology, Inc.

Medicoat AG

Bodycote

ASB Industries, Inc.

Other Prominent Players

Global Cold gas spray coatings: Regions

Global Cold gas spray coatings market is segmented based on regional analysis into five major regions: North America, Latin America, Europe, Asia Pacific, and the Middle East and Africa. The market in North America is expected to hold highest CAGR over the forecasted period. It dominates the cold gas spray coating market due to increased demand from end-use segments such as transportation, utility, and electrical and electronics, as well as favorable government regulations, increased demand for consumer electronics, increased disposable income, and rapid urbanization in this region. The rise in the utilization of sophisticated nanostructured and amorphous materials in various end-use industries in Europe is likely to drive growth in the cold gas spray coating market.

Global Cold gas spray coatings is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil, and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey, and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia, and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa, and Rest of MENA

Global Cold gas spray coatings report also contains analysis on:

Cold gas spray coatings Segments:

By Technology

High pressure

Low pressure

By End-User

Petrochemical
Marine
Power Generation
Transportation
Civil Building and Infrastructure
Food and Beverage Plants
Others
Cold gas spray coatings Dynamics
Cold gas spray coatings Size
Supply & Demand
Current Trends/Issues/Challenges
Competition & Companies Involved in the Market
Value Chain of the Market
Market Drivers and Restraints
Cold gas spray coatings Market Report Scope and Segmentation
Report Attribute Details
Market size value in 2020 USD 1.1 billion
Revenue forecast in 2030 USD 3.2 billion
Growth Rate CAGR of 5.4% from 2021 to 2030
Base year for estimation 2020
Quantitative units Revenue in USD million and CAGR from 2021 to 2030
Report coverage Revenue forecast, company ranking, competitive landscape, growth factors, and trends
Segments covered Technology, end-user and Region
Regional scope North America, Europe, Asia Pacific, Latin America, Middle East & Africa (MEA)
Key companies profiled Inovati, Plasma Giken Co., Ltd., VRC Metal Systems, LLC, Flame Spray Technologies B.V., Curtiss-Wright Surface Technologies, Rus Sonic Technology, Inc., Medicoat AG, Bodycote, ASB Industries, Inc. and Other Prominent Players.

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8. BODYCOTE

9. ASB INDUSTRIES, INC.

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Consultant Recommendation

****The above-given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.**

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