

# Cold Gas Spray Coating Market Set to Exceed USD 1.51 Billion by 2030, Driven by Aerospace and Automotive Applications

*Cold Gas Spray Coating Market grows driven by aerospace & automotive repair, surface finishing, & eco-friendly nature with no toxic fumes discharge*

TEXES, AUSTEN, USA, March 6, 2024 /EINPresswire.com/ -- According to the SNS Insider report, the [Cold Gas Spray Coating Market](#) was valued at USD 1.08 billion in 2022. It is projected to reach USD 1.51 billion by 2030, growing at a CAGR of 4.3% during the forecast period of 2023-2030.



Cold Gas Spray Coating Market

The Cold Gas Spray Coating Market is leading the way in advanced surface engineering, offering a game-changing solution for coating applications across various industries. Using cutting-edge cold spray technology, this market provides coatings that outperform traditional methods in

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*Akash Anand*

terms of efficiency and effectiveness. Cold Gas Spray Coating can deposit a wide range of materials at low temperatures, enhancing component durability and corrosion resistance while minimizing thermal stress and distortion. With industries increasingly prioritizing lightweight, durable, and environmentally friendly coatings, the Cold Gas Spray Coating Market is becoming indispensable. Through ongoing research and development, it continues to expand its capabilities, setting new standards for surface protection and functional enhancement.

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## Major Key Players in the Cold Gas Spray Coating Market

- VRC Metal Systems
- Plasma Giken Co. Ltd.
- Bodycote
- ASB Industries
- Curtiss-Wright Surface Technologies
- Praxair S.T. Technology
- Fujimi Inc.
- Polymet Corporation
- Flame Spray Technologies
- Oerlikon Metco
- and other

### Market Report Scope:

The Cold Gas Spray Coating Market report is a comprehensive analysis of an increasingly important aspect of industrial technology. It explores the realm of cold gas spray coating, shedding light on its applications and potential across various sectors. This innovative coating method is gaining traction for its ability to enhance surface properties in aerospace, automotive, healthcare, and electronics industries. Through wear resistance, corrosion protection, and improved thermal conductivity, cold gas spray coatings are proving invaluable.

Cold gas spray coatings, long used in various industries, have recently transformed component repair, particularly in aerospace. The aerospace sector, faced with high replacement costs and long lead times for damaged components, has turned to cold gas spray coatings to reduce maintenance costs. The technology offers benefits such as reduced sustainment costs, enhanced performance, and prolonged component life. Additionally, the growing demand for consumer electronics, especially in emerging economies like China and India, is expected to drive market growth. The utilization of advanced nanostructured materials in industries such as electrical, electronics, and medical further presents lucrative opportunities for cold gas spray coatings. However, high raw material costs and import tariffs imposed by governments may hinder market growth.

Moreover, the report provides valuable insights into key market players and their strategies. By comparing different cold gas spray coating materials, equipment, and processes, stakeholders can make informed decisions about technology adoption and investment.

### Market Analysis:

The surge in adoption of cold gas spray coatings by aerospace and automotive industries, coupled with the technology's eco-friendly nature and recyclable waste, are key drivers for market evolution. Moreover, the broad application range and cost-effectiveness of cold gas spray coatings are attracting end-users across industries. Nanostructured materials are enhancing product performance and finding applications in various manufacturing units. Additionally, rising

demand for lightweight components in various industries, such as aerospace and medical, contributes to the market's expansion.

A key aspect of the Cold Gas Spray Coating Market Analysis is its examination of competition and market dynamics. It delves into the diverse landscape of companies involved, ranging from industry veterans to emerging players. By dissecting trends like technological advancements and strategic alliances, the analysis provides insights into how companies are positioning themselves in the market, regionally and globally.

#### Segment Analysis:

**By Technology:** High-pressure technology dominates the market due to its widespread use in surface repair and coating across industries like aerospace, automotive, and electronics. Its ability to deliver low oxide and porosity levels makes it ideal for repairing metallic components.

**By End-use:** The transportation segment led the market and held the highest revenue share of about 45.5% in 2022 driven by demand from the aerospace and automotive industries. Cold gas spray coatings offer excellent bonding, low porosity, and oxide-free coating, making them suitable for various components in these industries.

#### By Technology

- Low Pressure
- High Pressure

#### By End-use

- Transportation
- Automotive
- Aerospace
- Oil & Gas
- Medical
- Electrical & Electronics
- Utility
- Others

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#### Key Regional Development:

North America held the largest market share of about 39.5% in 2022, driven by favorable government regulations promoting lightweight and high-performance components in the automotive sector. However, the shift of manufacturing industries to Asian countries may hamper regional demand, particularly in non-automotive sectors. Asia Pacific is poised for significant growth and is expected to grow at a CAGR of about 4.7% from 2023-2030, with the increasing adoption of cold gas spray coatings in the medical and transportation industries. The region's robust automotive production infrastructure, especially in China, Japan, and India,

presents new opportunities for market expansion.

#### Key Takeaways for Cold Gas Spray Coating Market Study:

- The aerospace and automotive industries are driving market growth, particularly in North America.
- Nanostructured materials and the eco-friendly nature of cold gas spray coatings present growth opportunities.
- Asia Pacific holds immense potential for market expansion, fueled by demand from various industries.

#### Recent Developments:

- In March 2023, Oerlikon completed the acquisition of Riri, enhancing its product offerings in coatings.
- In January 2021, Hannecard and ASB Industries joined forces to form Hannecard Roller Coatings, Inc., expanding their service portfolios.

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