

Cold Gas Spray Coating Market Size, Share & Trends Analysis Report By Technology (High Pressure, Low Pressure), By End Use (Transportation, Medical), By Region, And Segment Forecasts, 2020 - 2027

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Abstracts

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Cold Gas Spray Coating Market Growth & Trends

The global cold gas spray coating market size is anticipated to reach USD 1.2 billion by 2027, according to a new report by Grand View Research, Inc., expanding at a CAGR of 3.7% from 2020 to 2027. Growing demand for cold gas spray coating from the aerospace industry as a repair technique for lightweight aerospace alloys is expected to drive the market over the forecast period.

On the basis of end-use, the market is segmented into transportation, electrical and electronics, oil and gas, utility, medical, and others. The medical segment is expected to be the fastest-growing end-use segment with a CAGR of 4.6% over the forecast period. Cold gas spray coatings are increasingly being used in the medical sector for various applications, including dental implants and orthopedic prostheses. They are used in tooth implants, hip joints, knee joints, bone nails, elbow joints, shoulder joints, and a few other types of implants. Implants need to be corrosion-resistant and biocompatible and need to have the ability to withstand an enormous load. For orthopedic implants, a bone-friendly surface finish is required. Cold gas sprayed coatings using titanium have a rough surface, which gives bone cells the necessary space for the ingrowth process, thus making the product ideal for use in the medical sector. The increasing use of medical devices, coupled with the rising aging population and expanding healthcare industry, is expected to drive the product demand over the forecast period.

Asia Pacific is expected to be the fastest-growing regional market with a CAGR of 4.7% over the forecast period. The market in the Asia Pacific is primarily driven by the growing application of cold gas spray coatings in the transportation and medical industries. Increasing demand for lightweight components in various end-use industries, especially aerospace, medical, and electrical and electronics, coupled with the robust manufacturing base of the automotive industry in China, Japan, and India, has created new growth opportunities for cold gas spray coating manufacturers in the region. Cold gas spray coatings are majorly used to repair or coat metal and polymer components to increase their durability and service life. Therefore, the increasing use of lightweight components in the automotive and aerospace industries is expected to drive the demand for cold gas spray coatings over the forecast period.

Cold Gas Spray Coating Market Report Highlights

The North America market was valued at USD 367.0 million in 2019 and is estimated to witness significant growth from 2020 to 2027

The transportation end-use segment led the market and accounted for more than 46.0% share of the global revenue in 2019. The rising adoption of cold gas spray coating in aerospace and automotive aftermarket repair and maintenance activities is expected to drive the segment

High-pressure cold gas spray coating technology is expected to expand at the fastest CAGR from 2020 to 2027

The Asia Pacific is expected to emerge as the fastest-growing regional market over the forecast period. The market in India is expected to register the highest CAGR of 5.8% from 2020 to 2027.

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