

Cold Plasma Market To Enhance At Rate 15.3% With Applications Growing Across Several Industries

Market Size – USD 1,441.4 Million in 2019, Market Growth – at a CAGR of 15.3%, Market Trend – Growth of the textile industry

VANCOUVER, BC, CANADA, May 30, 2022 /EINPresswire.com/ -- The global [cold plasma market](#) is projected to be valued at USD 4,517.8 Million by 2027, according to a current analysis by Emergen Research. The cold plasma market registers a high growth rate,

owing to the increasing demand from the plastic industry. Effective application of plastic and polymers requires good surface adhesion to achieve optimum mechanical properties and improve durability of plastic components. The cold plasma process is highly beneficial in altering the surface morphology, improving surface wettability characteristics, and enhancing bonded

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Increasing demand for cold plasma in the plastic industry is one of the significant factors influencing the market growth.

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shear strength of plastic. The cold plasma technology is widely used in polymer and plastic industrial applications that require uniform, pore-free thin films with excellent physical, electric, mechanical, and chemical characteristics.

The cold plasma treatment on textile fiber surface does not involve use of any harmful chemical, thereby considerably reducing pollution caused by residual chemicals and water contamination. The report aims to offer the readers a holistic understanding of the relevant features of the industry. The study on the Global cold

plasma Market is the latest report covering the impact analysis of the currently ongoing COVID-19 pandemic. The pandemic has directly affected the market by causing disruptions in the global

supply chains and indirectly by inducing financial difficulties. The cold plasma market has witnessed dynamic changes in trends and demands owing to the ongoing COVID-19 pandemic.

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Top competitors of the Cold Plasma Market profiled in the report include:

Plasmatreat GmbH, Europlasma NV, Nordson Corporation, Apyx Medical Corporation, P2i Limited, Enercon Industries Corporation, Adtec Plasma Technology Co. Ltd., Relyon Plasma GmbH, neoplas GmbH, and Henniker Plasma

Key Highlights of Report

The low-pressure cold plasma segment is estimated to expand at the most rapid rate from 2020 to 2027. In the semiconductor industry, the low-pressure cold plasma (vacuum plasma) technology is used for lead frame cleaning before die attach and PCB (printed circuit board) de-smearing. Furthermore, the low pressure cold plasma is deployed for decontamination purposes in food & beverage and medical industries and for alteration of specific surface properties in textile and polymer industries.

The coating application segment is likely to expand at a significant rate during the forecast period. Cold plasma coating emphasizes coating of thermally sensitive objects by using a cold regulated jet of plasma that offers a high deposition rate and maximum automation degree, allowing mass production of coating products.

The cold plasma market in the Asia Pacific region is projected to expand at the most rapid rate from 2020 to 2027, owing to increasing infrastructure development and economic activities in several developing nations, including India, China, and Indonesia. Besides, growth of industries such as electronics & semiconductor, plastic, textile, and food & beverage, along with rise in the level of disposable income in the region, is boosting the market in Asia Pacific.

In April 2020, Relyon Plasma made an announcement about introduction of piezobrush PZ3, an innovative handheld plasma treatment device featuring the proprietary PDD technology of Relyon

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Emergen Research has segmented the global cold plasma market in terms of pressure, application, industry vertical, and region:

Pressure Outlook (Revenue, USD Million; 2017–2027)

Low Pressure Cold Plasma

Atmospheric Cold Plasma

Application Outlook (Revenue, USD Million; 2017–2027)

Wound Healing

Adhesion

Etching

Decontamination

Finishing

Printing

Surface Treatment

Coating

Wastewater Treatment

Blood Coagulation

Others

Industry Vertical Outlook (Revenue, USD Million; 2017–2027)

Polymer & Plastic

Textile

Food & Beverage

Agriculture

Electronics & Semiconductor

Medical

Regional Analysis of the Cold Plasma Market:

North America (U.S., Canada)

Europe (U.K., Italy, Germany, France, Rest of EU)

Asia Pacific (India, Japan, China, South Korea, Australia, Rest of APAC)

Latin America (Chile, Brazil, Argentina, Rest of Latin America)

Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of MEA)

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The report further offers a complete value chain analysis along with an analysis of the downstream buyers and upstream raw materials. The study focuses on global trends, regulatory frameworks, and macro- and micro-economic factors. The report also provides an extensive analysis of the segment and sub-segmented expected to dominate the market over the projected period. The report offers a forecast estimation of the market with regards to the analysis of the market segmentation, including product type, end-user industries, application spectrum, and other segments.

Key Objectives of the Report:

Extensive analysis of the key players of the market by SWOT analysis and Porter's Five Forces analysis to impart a clear understanding of the competitive landscape

Study of current and emerging trends, restraints, drivers, opportunities, challenges, growth prospects, and risks of the global Cold Plasma market

Analysis of the growth prospects for the stakeholders and investors through the study of the promising segments

Strategic recommendations to the established players and new entrants to capitalize on the emerging growth opportunities

Analysis and estimation of the Cold Plasma market size and share for the projected period of 2017-2027

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