

# **Cold Plasma Market by Industry (Textile, Electronics & Semiconductors, Polymer & Plastic, Food & Agriculture, Medical, Cosmetic), Application (surface treatment & activation, wound Healing), Regime (Atmospheric, Low Pressure) - Global Forecast to 2029**

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## **Abstracts**

The global Cold Plasma market is projected to reach USD 3.66 billion by 2029 from USD 2.17 billion in 2024, at a CAGR of 11.0% during the forecast period. The rapid growth and adoption of cold plasma across various industries such as medical, food, electronics etc. catering to wider applications with improved benefits, growing focus on sustainability, rise in the geriatric population globally and the significant rise in the patients with chronic wound conditions and cancer are expected to boost the demand for cold plasma market. Moreover, gradual rise in utilization of cold plasma due to improved awareness and benefits among various industries is likely to support the market growth. Advancements in cold plasma technology, new product launches, investments in R&D, and initiatives to enhance the accessibility and awareness of cold plasma is anticipated to fuel the market growth.

“The polymer & plastic industry segment of cold plasma market to register highest share during the forecast period.”

Based on the cold plasma market, the polymer & plastic industry cold plasma segment is anticipated to capture highest share during forecast period. The cold plasma market is experiencing growth in the plastic and polymer industry due to its ability to enhance surface properties like adhesion, wettability, and barrier resistance. This technology supports applications in coatings and packaging while offering a non-thermal, eco-

friendly alternative that minimizes the use of harsh chemicals. As industries increasingly prioritize product performance and sustainability, alongside a focus on innovation and customization, the adoption of cold plasma technology is expected to accelerate in polymer & plastic industry.

“The surface treatment & activation segment of application segment to capture the largest market share of cold plasma market.”

Based on application, the surface treatment & activation segment registered the highest share and expected to grow at higher pace during forecast period. This can be attributed due to its effectiveness in enhancing adhesion and wettability. Its non-thermal, eco-friendly approach appeals to various industries, driving increased adoption and innovation in applications are boosting the adoption of cold plasma technology in this application. Moreover, advancements in cold plasma technology are enabling more efficient and customizable applications, further propelling its adoption.

“North America accounted for the largest share of the cold plasma market by region.”

The global cold plasma market is segmented into five major regions, namely, North America, Europe, Asia Pacific, Latin America, and Middle East & Africa. North America is the largest regional market for cold plasma, whereas the Asia Pacific market is estimated to grow at the highest CAGR during the forecast period.

The largest share of North America is attributed to the high disease burden of chronic wound cases and cancer burden disease contributing to a larger pool of patients requiring cold plasma products. The presence of numerous potential market giants and improved awareness in the region is likely to promote the growth of cold plasma market in North America.

A breakdown of the primary participants referred to for this report is provided below:

By Company Type: Tier 1–35%, Tier 2–40%, and Tier 3– 25%

By Designation: Directors–25%, Managers–50% and Others–25%

By Region: North America–35%, Europe–30%, Asia Pacific–15% and RoW–20%

The major players operating in the cold plasma market market are Apyx Medical (US),

Nordson Corporation (US), Adtec Plasma Technology Co. Ltd. (Japan), P2i Ltd.(UK), Relyon Plasma GmbH (Germany), Henniker Plasma (UK), Enercon Industries Corporation (US), AcXys Plasma Technologies (France), Plasmatrete GmbH (Germany), Tantec A/S (Denmark), Europlasma NV (Belgium), Thierry Corp. (Germany), Surfx Technologies, LLC (US), SOFTAL Corona & Plasma GmbH (Germany), Coating Plasma Innovation (France), Ferrarini & Benelli (Italy), Neoplas GmbH (Germany), Terraplasma GmbH (Germany), Molecular Plasma Group SA (Germany), and CINOLOGY Technologies GmbH (Germany)

## Research Coverage

This report studies the cold plasma market based on industry, application, regime and region. The report also studies factors (such as drivers, restraints, opportunities, and challenges) affecting market growth and provides details of the competitive landscape for market leaders. Furthermore, the report analyzes micro markets with respect to their individual growth trends and forecasts the revenue of the market segments with respect to five major regions (and the respective countries in these regions).

## Reasons to Buy the Report

The report will enable established firms as well as entrants/smaller firms to gauge the pulse of the market, which, in turn, would help them to garner a larger market share. Firms purchasing the report could use one or a combination of the below-mentioned strategies for strengthening their market presence.

This report provides insights on the following pointers:

Analysis of Key drivers (increased benefits and wider application, rising use in wound healing , growing applications in cancer and infectious disease, technological advancements), restraints (high capital investments), Opportunities (emerging markets, growing sustainability across industries) , Challenge (limited commercialization and awareness, limited key players presence in emerging economies)

Market Penetration: Comprehensive information on the product portfolios offered by the top players in the cold plasma market

Product Development/Innovation: Detailed insights on the upcoming trends, R&D activities, and product launches in the cold plasma market

Market Development: Comprehensive information on lucrative emerging regions

Market Diversification: Exhaustive information about new products, growing geographies, and recent developments in the cold plasma market

Competitive Assessment: In-depth assessment of market segments, growth strategies, revenue analysis, and products of the leading market players.

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