

# Chemical Surface Treatment Market is Estimated to Reach USD 30.6 Billion by 2035 | FactMR Analysis

*Chemical surface treatment market is set for steady growth, driven by demand across automotive, electronics & construction with a focus on sustainability.*

ROCKVILLE, MD, UNITED STATES, August 27, 2025 /EINPresswire.com/ -- The global [chemical surface treatment market](#) is projected to grow significantly over the next decade. It is expected to expand from USD 17.9 billion in 2025 to USD 30.6 billion by 2035, representing a compound annual growth rate of 5.5 percent.



This strong outlook reflects the rising demand from multiple sectors such as automotive, aerospace, electronics, and construction, where surface treatment is critical to improving durability, adhesion, and corrosion resistance.

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## Chemical Surface Treatment Market Analysis, by Type

The market is broadly categorized by several treatment types. Conversion coatings, including chromate, phosphate, and anodizing methods, account for a substantial share due to their effectiveness in protecting steel and aluminum components from corrosion while also improving adhesion. Cleaning agents such as degreasers and descalers play a vital role in preparing surfaces for subsequent treatments. Plating chemicals, both electroplating and electroless varieties, are widely applied to improve appearance and conductivity. Other types include paint strippers, etchants, and specialty chemicals, each addressing specific industrial requirements.

## By Base Material

Chemical surface treatment processes are applied across a wide range of materials. Aluminum and steel dominate the market due to their extensive use in automotive, aerospace, and construction sectors. Aluminum, with its lightweight properties, is particularly in demand for electric vehicles and aircraft manufacturing, while steel remains indispensable in structural applications. Other materials that rely on surface treatments include zinc, copper, composites, and plastics, all of which require specialized formulations to achieve the desired functional and aesthetic results.

## By Application

Applications of chemical surface treatment are diverse and integral to modern manufacturing. Corrosion protection remains the most prominent application, as industries increasingly seek solutions to extend the life span of critical components. Cleaning and surface preparation are also vital, ensuring that substrates are free of contaminants before painting, coating, or plating. Treatments that enhance paint and coating adhesion are essential in industries where long-lasting finishes are required. Other applications include improving wear resistance, creating decorative finishes, and enhancing electrical conductivity in electronic components.

## By End User

The end-user landscape of the chemical surface treatment market is broad. The automotive industry leads demand, fueled by the growing need for lightweight materials, improved corrosion resistance, and high-quality finishes in both traditional and electric vehicles. Aerospace is another key sector, where safety and durability are paramount. Electronics and electrical applications rely on treatments that improve conductivity and protect delicate components. Industrial machinery, construction, and consumer goods also contribute to steady demand, each applying surface treatments to enhance performance and product lifespan.

## By Region

Regionally, Asia-Pacific holds the largest share of the chemical surface treatment market. Rapid industrialization, strong automotive and electronics production, and large-scale infrastructure projects are driving growth in countries such as China, India, and Japan. North America is witnessing steady expansion, particularly through the aerospace and defense sectors, as well as the fast-growing electric vehicle market. Europe continues to emphasize eco-friendly and high-performance surface treatments due to stringent regulatory frameworks and advanced manufacturing practices. Other regions, including Latin America and the Middle East, are emerging with new industrial and construction projects that are fueling localized demand.

## Highlighting Recent Developments in the Market

Recent developments are reshaping the competitive landscape of the chemical surface treatment industry. Chemeon has advanced its trivalent chromium conversion coating technology, offering a safer, environmentally friendly alternative to hexavalent chrome with improved corrosion resistance, particularly in aerospace and industrial applications. BASF Coatings expanded its polyester and polyurethane resin production in Shanghai to meet the increasing need for automotive coatings.

PPG Industries recently introduced an integrated battery pack coating system designed for electric vehicles, offering both thermal and corrosion protection, and showcased the innovation at a major European trade show. Nippon Paint Holdings further strengthened its market presence by acquiring its Indian automotive coatings subsidiaries, with a strong focus on sustainable and environmentally compliant solutions.

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### Key Players and Competitive Analysis

The chemical surface treatment market is moderately fragmented but is gradually consolidating as key players expand their portfolios and invest in sustainable technologies. Prominent companies include Henkel, Chemetall (a BASF company), PPG Industries, Nippon Paint Holdings, Nihon Parkerizing, Quaker Houghton, Atotech, Platform Specialty Products, Asterion LLC, and Dow Inc. These companies are not only competing on product quality and price but are also differentiating themselves through innovation in eco-friendly chemistries and integrated service offerings. Many are now providing complete systems that include surface treatment chemicals, application equipment, and technical support to ensure consistency and efficiency for end users.

Research and development continues to play a pivotal role, with firms investing heavily in technologies that comply with tightening environmental standards. Advancements in nanotechnology, trivalent chromium alternatives, and low-VOC chemistries are increasingly shaping the future of this market. Competitors are also leveraging automation, predictive maintenance, and data analytics to provide smarter solutions that enhance reliability and efficiency.

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### Contact:

US Sales Office:

11140 Rockville Pike

Suite 400

Rockville, MD 20852

United States

Tel: +1 (628) 251-1583

Sales Team : [sales@factmr.com](mailto:sales@factmr.com)

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S. N. Jha

Fact.MR

+1 628-251-1583

[sales@factmr.com](mailto:sales@factmr.com)

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