

Transparency Market Research

**Chemical Milling Market -  
Global Industry Analysis,  
Size, Share, Forecast 2017 -  
2025**

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## Report Description

Chemical milling can be defined as a subtractive manufacturing process, wherein chemicals are used rather than cutting tools, to manipulate the characteristics of metals. It is considered an economical option for the manufacture of small size metal parts. The difference between chemical etching and chemical milling is that the former is used to manufacture metal parts, while the latter is used to alter the characteristics of those parts.

The process of chemical milling was developed during the renaissance of engraving on the metal parts. Chemical milling is used for the removal of surface-related materials of parts after which chemical etching is performed. At the start of the process, a CAD file is used for the creation of a visual of the final metal part along with the top and bottom patterns that are supposed to be milled. This technique is necessary for the application of photoresist, a layer used to transfer the pattern by UV light on metal parts. Chemical milling generally involves a series of five steps: cleaning, masking, scribing, etching, and demasking. It is useful for creating parts such as haptics, sinks, and filters. The process of chemical milling is ideally suited for metals such as titanium, niobium, and copper, but can be used for wide range of metals such as copper and aluminum.

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Based on type, the market for chemical milling can be segmented into steel chemical etched part, brass chemical etched part, aluminum chemical etched part, and copper chemical etched part. In terms of application, the market for chemical milling can be segregated into aerospace, medical, automotive, electronics, and others.

The market for chemical milling is anticipated to witness moderate growth owing to the expansion of end-user industries. The electronics application segment held significant share of the market in 2016 due to the wide usage of chemical milling in the manufacture of integrated circuits and microelectromechanical systems. The electronics industry commonly uses plasma etching over standard liquid based etching for the production of components. The aerospace segment of the chemical milling market accounted for key share in 2016. The segment is anticipated to witness strong growth during the forecast period. Chemical milling is used to remove shallow layers of materials from extruded parts of airframes, large aircraft components, and missile skin panels, among others. Based on type, the steel chemical etched part segment constituted prominent share of the market in 2016. It was followed by the aluminum chemical etched part and copper chemical etched part segments in the year. Presence of other efficient and economic technologies such as electroforming, laser cutting, and photo etching is likely to hamper the chemical milling market during the forecast period.

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Geographically, North America held major share of the global chemical milling market in 2016. The market in the region is estimated

to witness strong growth during the forecast period, led by the high investments in the aerospace sector. Presence of robust electronics manufacturing industry is a key factor driving the chemical milling market in Asia Pacific. Increase in production and sales of automotive in emerging economies of Asia Pacific such as India and China is projected to propel the market for chemical milling in the near future. Significant investments in research & development activities in the medical sector in Europe is the key factor boosting the chemical milling market.

Key players operating in the chemical milling market are Lancaster Metals Science Co., Great Lakes Engineering, Tech-Etch, Tech Met, United Western Enterprises, Orbel, VACCO Industries, and Wist Europe.

**The study is a source of reliable data on:**

- Market segments and sub-segments
- Market trends and dynamics
- Supply and demand
- Market size
- Current trends/opportunities/challenges
- Competitive landscape
- Technological breakthroughs
- Value chain and stakeholder analysis

**The regional analysis covers:**

- North America (U.S. and Canada)
- Latin America (Mexico, Brazil, Peru, Chile, and others)
- Western Europe (Germany, U.K., France, Spain, Italy, Nordic countries, Belgium, Netherlands, and Luxembourg)
- Eastern Europe (Poland and Russia)
- Asia Pacific (China, India, Japan, ASEAN, Australia, and New Zealand)
- Middle East and Africa (GCC, Southern Africa, and North Africa)

The report has been compiled through extensive primary research (through interviews, surveys, and observations of seasoned analysts)

and secondary research (which entails reputable paid sources, trade journals, and industry body databases). The report also features a complete qualitative and quantitative assessment by analyzing data gathered from industry analysts and market participants across key points in the industry's value chain.

A separate analysis of prevailing trends in the parent market, macro- and micro-economic indicators, and regulations and mandates is included under the purview of the study. By doing so, the report projects the attractiveness of each major segment over the forecast period.

### Highlights of the report:

- A complete backdrop analysis, which includes an assessment of the parent market
- Important changes in market dynamics
- Market segmentation up to the second or third level
- Historical, current, and projected size of the market from the standpoint of both value and volume
- Reporting and evaluation of recent industry developments
- Market shares and strategies of key players
- Emerging niche segments and regional markets

An objective assessment of the trajectory of the market Recommendations to companies for strengthening their foothold in the market.

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Transparency Market Research is a market intelligence company providing global business information reports and services. Our exclusive blend of quantitative forecasting and trends analysis provides forward-looking insight for thousands of decision makers.

We are privileged with highly experienced team of Analysts, Researchers and Consultants, who use proprietary data sources and

various tools and techniques to gather, and analyze information. Our business offerings represent the latest and the most reliable information indispensable for businesses to sustain a competitive edge.

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