

# Global Ultra Micro Arc Oxidation Technology Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Ultra Micro Arc Oxidation Technology market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Ultra Micro Arc Oxidation (UMAO) technology is a surface treatment process that is used to create a ceramic-like layer on the surface of metals, such as aluminum, magnesium, and titanium alloys. It is also known as Micro Arc Oxidation (MAO) or Plasma Electrolytic Oxidation (PEO).

In UMAO, a high voltage electrical discharge is generated between an anode (metal) and a cathode (electrolyte) in an electrolytic bath. This creates a plasma discharge on the surface of the metal, which causes the formation of an oxide layer through the interaction of the metal with the oxygen ions in the electrolyte. The oxide layer grows through the accumulation of tiny arcs and sparks, which create craters and protrusions on the surface of the metal, forming a highly porous ceramic-like layer with a thickness of up to several hundred microns.

The resulting layer has excellent properties, such as high wear resistance, high hardness, corrosion resistance, thermal and electrical insulation, and biocompatibility. It can also be colored and coated with various materials to improve its appearance and functionality. UMAO is used in a variety of applications, including aerospace, automotive, biomedical, and electronic industries, to improve the performance and durability of metal components.

This report studies the global Ultra Micro Arc Oxidation Technology demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultra Micro Arc Oxidation Technology, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ultra Micro Arc Oxidation Technology that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ultra Micro Arc Oxidation Technology total market, 2018-2029, (USD Million)

Global Ultra Micro Arc Oxidation Technology total market by region & country, CAGR, 2018-2029, (USD Million)

U.S. VS China: Ultra Micro Arc Oxidation Technology total market, key domestic companies and share, (USD Million)

Global Ultra Micro Arc Oxidation Technology revenue by player and market share 2018-2023, (USD Million)

Global Ultra Micro Arc Oxidation Technology total market by Type, CAGR, 2018-2029, (USD Million)

Global Ultra Micro Arc Oxidation Technology total market by Application, CAGR, 2018-2029, (USD Million)

This reports profiles major players in the global Ultra Micro Arc Oxidation Technology market based on the following parameters – company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bodycote, C&M Technologies GmbH, Chemat Technology, Cybershield, Dowa Thermotech, EPSI, FEMTO Engineering SRL, Hauzer Techno Coating and Intlvac Thin Film Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ultra Micro Arc Oxidation Technology market

## Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

## Global Ultra Micro Arc Oxidation Technology Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Ultra Micro Arc Oxidation Technology Market, Segmentation by Type

AC UMAO

DC UMAO

## Global Ultra Micro Arc Oxidation Technology Market, Segmentation by Application

Electronic Industries

Aerospace

Automotive

Biomedical

Others

#### Companies Profiled:

Bodycote

C&M Technologies GmbH

Chemat Technology

Cybershield

Dowa Thermotech

EPSI

FEMTO Engineering SRL

Hauzer Techno Coating

Intlvac Thin Film Corporation

Keronite International

Lintec Coating Technologies

Marco Group International

Oerlikon Metco

Plasmatechnik Dr. Stöcker

PVD Products

Saint-Gobain

Surface Technology International

Thermal Spray Technologies

Valtion teknillinen tutkimuskeskus (VTT)

Zircotec

Shanghai Kinlita Chemical

### Key Questions Answered

1. How big is the global Ultra Micro Arc Oxidation Technology market?
2. What is the demand of the global Ultra Micro Arc Oxidation Technology market?
3. What is the year over year growth of the global Ultra Micro Arc Oxidation Technology market?
4. What is the total value of the global Ultra Micro Arc Oxidation Technology market?
5. Who are the major players in the global Ultra Micro Arc Oxidation Technology market?
6. What are the growth factors driving the market demand?

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