

Silver and Gold-based Brazing Materials Market by Product Type (Silver-Based Brazing Materials, Gold-Based Brazing Materials), Application (HVAC&R, Automotive, Aerospace, Medical, Electricals and Electronics, and Others), and Region 2023-2028

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Abstracts

The global silver and gold-based brazing materials market size reached US\$ 4.3 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 6.4 Billion by 2028, exhibiting a growth rate (CAGR) of 7.00% during 2023-2028. The proliferation of consumer electronics and appliances, the bolstering growth of the automotive sector wherein the product finds applications to manufacture lightweight and energy-efficient automobiles, and the expanding infrastructural development represent some of the key factors driving the market.

Silver and gold-based brazing materials are alloys used in the brazing process to join metal components together. Silver-based brazing materials typically contain silver as the primary component, with small amounts of other metals such as copper, zinc, and nickel. They exhibit excellent flow characteristics, high strength, corrosion resistance, and low melting points, making them ideal for heating, ventilation, and air conditioning (HVAC), automotive, aerospace, and electronics applications. Gold-based brazing materials, on the other hand, are less commonly used than silver-based alloys. These alloys are primarily composed of gold and other metals such as nickel, zinc, and copper. They provide exceptional corrosion resistance, high electrical conductivity, and good thermal conductivity. As a result, gold-based brazing materials are often utilized in specialized applications such as joining high-frequency electronic components, fiber optics, and medical devices.

Silver and Gold-based Brazing Materials Market Trends:

Silver and Gold-based Brazing Materials Market by Product Type (Silver-Based Brazing Materials, Gold-Based Bra...

The increasing demand for lightweight and energy-efficient automobiles is primarily driving the need for high-performance brazing materials, including silver and gold-based alloys, in various applications such as heat exchangers, radiators, and exhaust systems. Besides this, the rising use of silver and gold-based brazing materials across a variety of applications, such as electronic component assembly, power semiconductors, and electrical connectors, is positively impacting the market growth. Moreover, the bolstering growth of the electronics and electrical industries, the proliferation of smartphones, tablets, wearables, laptops, and computers, and the shifting preference for renewable energy are presenting remunerative growth opportunities for the market. In addition to this, the surging demand for medical devices and equipment, including implants, surgical instruments, and diagnostic tools, due to the prevalence of numerous chronic diseases, is contributing to the market growth. Concurrent with this, the large-scale product adoption across the thriving aerospace and defense sectors for critical applications, such as turbine engines, aircraft structures, and electronic systems, is acting as another significant growth-inducing factor. Furthermore, ongoing infrastructural development, including construction, transportation, and utilities, is generating the need for brazing materials for reliable and durable joints, which, in turn, is propelling the market forward.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global silver and gold-based brazing materials market, along with forecasts at the global, regional, and country levels from 2023-2028. Our report has categorized the market based on product type and application.

Product Type Insights:

Silver-Based Brazing Materials

Gold-Based Brazing Materials

The report has provided a detailed breakup and analysis of the silver and gold-based brazing materials market based on the product type. This includes silver- and gold-based brazing materials.

Application Insights:

HVAC&R

Automotive

Aerospace

Medical
Electricals and Electronics
Others

A detailed breakup and analysis of the silver and gold-based brazing materials market based on the application has also been provided in the report. This includes HVAC&R, automotive, aerospace, medical, electricals and electronics, and others. According to the report, HVAC&R accounted for the largest market share.

Regional Insights:

North America
United States
Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany,

France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America was the largest market for silver and gold-based brazing materials. Some of the factors driving the North America silver and gold-based brazing materials market included the rising demand for consumer electronic devices and appliances, the increasing number of infrastructural projects, and the thriving aerospace and defense industries.

Competitive Landscape

The report has also provided a comprehensive analysis of the competitive landscape in the global silver and gold-based brazing materials market. Detailed profiles of all major companies have also been provided. Some of the companies covered include Aimtek Inc., Indian Solder and Brazing Alloys, Johnson Matthey PLC, Linbraze S.r.l., Lucas-Milhaupt, Inc. (Steel Partners Holdings L.P.), Materion Corporation, Morgan Advanced Materials PLC, Pietro Galliani Brazing S.p.A, Prince & Izant Company, Sentes-BIR A.S., The Lincoln Electric Company, Umicore, WIELAND Edelmetalle GmbH (SAXONIA Group), etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

How has the global silver and gold-based brazing materials market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global silver and gold-based brazing materials market?

What is the impact of each driver, restraint, and opportunity on the global silver and gold-based brazing materials market?

What are the key regional markets?

Which countries represent the most attractive silver and gold-based brazing materials market?

What is the breakup of the market based on the product type?

Which is the most attractive product type in the silver and gold-based brazing materials market?

What is the breakup of the market based on the application?

Which is the most attractive application in the silver and gold-based brazing materials market?

What is the competitive structure of the global silver and gold-based brazing materials market?

Who are the key players/companies in the global silver and gold-based brazing materials market?

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