

Braze Alloys Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

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Report description:

The braze alloys market is expected to register a CAGR of over 4% during the forecast period (2022-2027).

The COVID-19 pandemic had a negative impact on the market; however, it has now been estimated to have reached pre-pandemic levels and is expected to grow steadily in the future.

The increasing adoption rate of the brazing process over processes like welding and soldering and the increasing demand for aluminum brazing alloys from the automotive industry are expected to drive the market.

Fluctuating prices of base metals are likely to hinder the growth of the market.

The development of vacuum brazing technology is likely to provide an opportunity for the market to grow in the years to come.

Braze Alloys Market Trends

The Automotive Segment is Expected to Dominate the Market

Braze alloys are used for various joining applications in the automotive industry. Various metallic parts are joined together through a metallic filler, i.e., braze alloys, with a melting temperature lower than the melting point of the joined parts or base metal.

Furthermore, the filler metal can be used in the form of a wire, a thin plate, or a paste depending upon the end-user applications.

Diode laser brazing, furnace/vacuum brazing, and metal inert gas (MIG) brazing are majorly used for automotive joining applications. In diode laser brazing, a laser beam is guided along the joint where it melts the filler material such as

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copper-silicon-wire.

Moreover, furnace/vacuum brazing is a semi-automated process through which automotive metal components are joined using a dissimilar lower filler metal. Vacuum/furnace brazing is used to join simple or complex designs of one joint or multi-joint assemblies.

Some of the key applications of braze alloys in automotive manufacturing include joining of the ABC pillars to the roof, laser beam or plasma brazing on the C-pillar, laser beam brazing on the trunk cover, MIG brazing of the fuel tank tube, aluminum plated or non-coated steel sheets in the structure area of the automotive body, and others.

Automotive production in the first nine months of 2021 observed a growth of 10% compared to the same period in 2020.

Thus, the automotive segment is expected to dominate the market.

The United States is Expected to Dominate the North American Region

The United States has the largest aerospace industry in the world and one of the largest automotive, marine, and construction markets, which are continuously expanding at a steady pace.

The total commercial aircraft fleet in the country is expected to reach 8,290 in 2038, owing to the growth in air cargo. Additionally, the US mainliner carrier fleet is expected to grow at an average rate of 45 aircraft per year, as the existing fleet is getting older.

Exports of aerospace components to countries like France, China, and Germany, along with robust consumer expenditure in the United States, are driving the manufacturing activities in the aerospace industry.

The United States is the second-largest producer of automobiles after China. Various automotive manufacturing companies are continuously investing in the country amid threats from the government to increase levies on auto imports from Mexico.

The gradual growth of the commercial construction sector, primarily in office space construction, is likely to have a positive impact on the market studied. Additionally, the rise in home sales, coupled with the renovation of the existing houses, is boosting the demand for residential construction in the United States.

In terms of size, the electronics market in the United States is the largest. Owing to the usage of advanced technology, an increasing number of R&D centers, and rising demand from consumers, the braze alloys market is expected to grow over the forecast period.

Owing to the rapid pace of innovation in the advancement of technology and R&D activities in the electronics industry, there is a high demand for newer and faster electronic products. There is a spur in the number of manufacturing plants and development centers in the United States, focusing on high-end products, which is expected to boost the demand for braze alloys over the forecast period.

Hence, the United States is expected to dominate the North American market during the forecast period.

Braze Alloys Market Competitor Analysis

The braze alloys market is partially consolidated in nature. Some of the major players operating in the market (in no particular

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order) include Aimtek Inc., The Harris Products Group, Lucas-Milhaupt, Oerlikon Metco, and Sulzer Ltd, among others.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

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