

Global Insulated Metal Substrates Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Insulated Metal Substrates market size was valued at USD 720 million in 2023 and is forecast to a readjusted size of USD 1299.7 million by 2030 with a CAGR of 8.8% during review period.

Insulated metal substrate (IMS) consists of a metal baseplate (aluminium is commonly used because of its low cost and density) covered by a thin layer of dielectric (usually an epoxy-based layer) and a layer of copper (35 μm to more than 200 μm thick). The FR-4-based dielectric is usually thin (about 100 μm) because it has poor thermal conductivity compared to the ceramics used in DBC substrates.

Due to its structure, the IMS is a single-sided substrate, i.e. it can only accommodate components on the copper side. In most applications, the baseplate is attached to a heatsink to provide cooling, usually using thermal grease and screws. Some IMS substrates are available with a copper baseplate for better thermal performances.

Compared to a classical printed circuit board, the IMS provides a better heat dissipation. It is one of the simplest ways to provide efficient cooling to surface mount components.

The Insulated Metal Substrates industry can be broken down into several segments, Copper Based, Aluminum Based, etc.

Global key players of Insulated Metal Substrates include AT&S, NHK, NCAB Group, Ventec, W?rthElektronik GmbH and TCLAD Inc, etc. Top two players occupy for a share about 15%. China is the largest market, with a share about 25%, followed by North

America and Europe. In terms of product, Aluminum Based is the largest segment, with a share over 50%. In terms of application, Industrial Control is the largest market, with a share over 34%.

The Global Info Research report includes an overview of the development of the Insulated Metal Substrates industry chain, the market status of Lighting Application (Copper Based, Aluminum Based), Automotive Industry (Copper Based, Aluminum Based), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Insulated Metal Substrates.

Regionally, the report analyzes the Insulated Metal Substrates markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Insulated Metal Substrates market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Insulated Metal Substrates market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Insulated Metal Substrates industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K sqm), revenue generated, and market share of different by Type (e.g., Copper Based, Aluminum Based).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Insulated Metal Substrates market.

Regional Analysis: The report involves examining the Insulated Metal Substrates market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Insulated Metal Substrates market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Insulated Metal Substrates:

Company Analysis: Report covers individual Insulated Metal Substrates manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Insulated Metal Substrates. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Lighting Application, Automotive Industry).

Technology Analysis: Report covers specific technologies relevant to Insulated Metal Substrates. It assesses the current state, advancements, and potential future developments in Insulated Metal Substrates areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Insulated Metal Substrates market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Insulated Metal Substrates market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Copper Based

Aluminum Based

Others

Market segment by Application

Lighting Application

Automotive Industry

Industrial Control

Others

Major players covered

NHK

AT&S

Henkel

Ventec

W?rthElektronik GmbH

NCAB

CML

Denka

ECM Group

Guangdong CH Laminates Technology Corp Ltd

DK Thermal

AI Technology

Technoboards KRONACH GmbH

Segue Electronics

PragoBoard s.r.o.

TCLAD Inc

DK-Daleba

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Insulated Metal Substrates product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Insulated Metal Substrates, with price, sales, revenue and global market share of Insulated Metal Substrates from 2019 to 2024.

Chapter 3, the Insulated Metal Substrates competitive situation, sales quantity, revenue

and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Insulated Metal Substrates breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Insulated Metal Substrates market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Insulated Metal Substrates.

Chapter 14 and 15, to describe Insulated Metal Substrates sales channel, distributors, customers, research findings and conclusion.

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