

Metallic Glass Market, Opportunity, Growth Drivers, Industry Trend Analysis and Forecast, 2024-2032

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Report description:

The global metallic glass market was valued at USD 1.6 billion in 2023 and is projected to grow at a CAGR of over 6.1% from 2024 to 2032. Metallic glasses, formed by rapidly cooling molten alloys, exhibit high strength, elasticity, and corrosion resistance, making them ideal for various applications. Key sectors include electronics (transformers and inductors), medical (surgical instruments and implants), sports equipment, and aerospace and defense (structural components). The U.S. Department of Energy reports a 15% increase in demand for high-performance materials, supporting market growth. Amorphous metals, with 2 to 3 times higher electrical resistivity than crystalline metals, are attractive alternatives to traditional materials. In distribution transformers, they can reduce no-load losses by up to 70%.

The overall metallic glass industry is classified based on the product, sector, and region.

The metal-metal segment of the metallic glass market is expected to reach USD 1.7 billion by 2032, growing at a CAGR of over 6.0%. These composites, consisting of a predominant metal and another metal (9-50%), offer superior structural strength and magnetizable properties, making them suitable for various industrial applications. Growth is driven by demand from electrical & electronics, sports, and aerospace industries. As high-performance electronics demand rises, manufacturers increasingly use metallic glass for its superior performance and aesthetic benefits.

The electrical & electronics segment of the metallic glass market is projected to grow at a CAGR of around 5.8%, reaching USD 2.2 billion by 2032. This growth is due to the superior electrical and magnetic properties of metallic glasses, which are used in transformers, inductors, and magnetic sensors. Their thermal and mechanical stability enhances electronic components' performance and lifespan. The trend towards smaller, energy-efficient devices boosts demand for advanced materials like metallic glasses. Innovations in production methods and alloy formulations further drive their use in high-frequency and high-performance electronics.

The Asia Pacific metallic glass industry is set to achieve a market size of approximately USD 1.03 billion, with a CAGR of 6.6% from 2024 to 2032. China, Japan, and South Korea lead the market, utilizing metallic glasses in the electronics, automotive, and aerospace sectors. Increased R&D investments and supportive government initiatives amplify market growth. The Asia-Pacific region, with its diverse industrial landscape and strong emphasis on innovation, solidifies its position as a key player in the global

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metallic glass market.

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