

# Global Magnesium Diboride Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Magnesium Diboride market size will reach 37.84 Million USD in 2025 and is projected to reach 77.14 Million USD by 2032, with a CAGR of 10.71% (2025-2032). Notably, the China Magnesium Diboride market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Magnesium diboride, also known as MgB<sub>2</sub>, is a binary compound consisting of magnesium (Mg) and boron (B). It is classified as a superconducting material, meaning it can conduct electrical current with zero electrical resistance when cooled below a certain critical temperature. MgB<sub>2</sub> has attracted significant attention in the field of superconductivity due to its relatively high critical temperature, which is around 39 Kelvin (-234 degrees Celsius). This makes it more practical for certain applications compared to other superconductors that require much lower temperatures. MgB<sub>2</sub> is typically synthesized by reacting magnesium and boron in an inert environment at high temperatures. Its unique superconducting properties have led to its use in various fields, such as high-field magnets, energy storage, and power transmission systems.

The major global manufacturers of Magnesium Diboride include Materion Corporation, Stanford Advanced Materials, ESPI, READE, Baoding Pengda, Luoyang Tongrun, Shanghai Longjin Metallic, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that

command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Magnesium Diboride. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Magnesium Diboride market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Magnesium Diboride market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Magnesium Diboride industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Magnesium Diboride Include:

Materion Corporation

Stanford Advanced Materials

ESPI

READE

Baoding Pengda

Luoyang Tongrun

Shanghai Longjin Metallic

Magnesium Diboride Product Segment Include:

Superconducting Wire

Superconducting Thin Films

Magnesium Diboride Product Application Include:

Medical

Energy

Transportation

Science

## **Chapter Scope**

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