

Global Manganin Thin Film Market Growth 2026-2032

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Abstracts

The global Manganin Thin Film market size is predicted to grow from US\$ 715 million in 2025 to US\$ 1098 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

Manganin thin film is a precision resistive material layer composed primarily of a copper–manganese–nickel alloy, deposited at micron- or nanometer-scale thickness onto substrates such as silicon, alumina, glass, or polymer films, and is valued for its extremely low temperature coefficient of resistance (TCR), high resistivity stability, and excellent long-term drift performance, making it ideal for thin-film resistors, strain gauges, current shunts, and precision sensing elements. The supply chain begins with upstream sourcing of high-purity copper, manganese, and nickel metals, followed by alloy melting and ingot preparation by specialty alloy producers; these alloys are then converted into sputtering targets or evaporation sources by materials processors. In the midstream stage, semiconductor and advanced materials manufacturers deposit manganin thin films using physical vapor deposition (PVD) techniques such as sputtering or e-beam evaporation, followed by photolithography, patterning, and annealing to tune resistive properties. Downstream, the processed films are integrated into discrete thin-film resistors, MEMS sensors, precision current-sensing components, and hybrid ICs, which are supplied to end markets including industrial instrumentation, automotive electronics, aerospace systems, medical devices, and high-accuracy laboratory equipment where resistance stability and thermal reliability are critical. In 2025, the global manganin thin film market achieved an annual production volume of approximately 1.85 million square meters against an estimated global production capacity of about 2.30 million square meters per year, with average unit prices ranging from USD 320 to 750 per square meter, while the industry sustained an average gross margin of around 36%.

United States market for Manganin Thin Film is estimated to increase from US\$ million

in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Manganin Thin Film is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Manganin Thin Film is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Manganin Thin Film players cover Isabellenh?tte Heusler (Germany), Vishay Precision Group (USA), Susumu (Japan), Caddock Electronics (USA), Thin Film Technology (USA), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Manganin Thin Film Industry Forecast" looks at past sales and reviews total world Manganin Thin Film sales in 2025, providing a comprehensive analysis by region and market sector of projected Manganin Thin Film sales for 2026 through 2032. With Manganin Thin Film sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Manganin Thin Film industry.

This Insight Report provides a comprehensive analysis of the global Manganin Thin Film landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Manganin Thin Film portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Manganin Thin Film market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Manganin Thin Film and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Manganin Thin Film.

This report presents a comprehensive overview, market shares, and growth opportunities of Manganin Thin Film market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Sputtered Manganin Thin Film

E-beam Evaporated Film

Ion-beam-assisted Film

Segmentation by Film Thickness:

Ultra-thin Film (

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