

Global Mu Metal Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Mu Metal market size is expected to reach \$ 283 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

In 2025, global Mu Metal production reached approximately 3,580 tons, with an average global market price of around 53 US\$/kg.

Mu Metal is a high-permeability soft magnetic nickel-iron alloy mainly used for shielding static and low-frequency magnetic fields. Its typical composition is about 77-82% nickel, with iron as the balance and small additions of molybdenum, manganese or silicon to improve magnetic permeability, low coercivity and low hysteresis loss. Commercial grades include MuMETAL, MUMETALL, HyMu 80 and similar Ni-Fe-Mo alloys. After precision melting, rolling and controlled hydrogen or vacuum annealing, Mu Metal can provide very high magnetic permeability, making it suitable for magnetic shielding cans, foils, sheets, transformer cores, medical imaging systems, sensors, aerospace electronics, precision instruments and low-field magnetic protection applications.

The average single-line production capacity of Mu Metal is 23 tons, the average gross profit margin was 31.7%.

The Mu Metal industry chain starts with upstream raw materials such as high-purity nickel, iron, molybdenum, manganese, silicon and specialty alloy additives, plus vacuum melting equipment, rolling mills, annealing furnaces and quality-control instruments. The midstream consists of alloy producers that conduct vacuum induction melting, hot/cold rolling, strip or foil forming, heat treatment, slitting, stamping and magnetic property testing to produce Mu Metal sheet, foil, strip, bar and fabricated shielding components. Downstream demand mainly comes from magnetic shielding,

aerospace and defense electronics, medical imaging, particle accelerators, power electronics, precision sensors, transformers, audio equipment, scientific instruments and semiconductor or laboratory equipment.

Mu Metal cost is dominated by raw materials, especially high nickel content, which usually accounts for about 55%-65% of total cost; molybdenum and other alloying elements account for about 5%-8%; energy, vacuum melting, rolling and annealing account for around 10%-15%; labor and manufacturing overhead account for 8%-12%; precision testing, magnetic-property certification and yield loss account for 5%-8%; packaging, logistics and other expenses account for about 3%-5%. Because final magnetic performance depends heavily on controlled annealing and low-stress processing, Mu Metal has a much higher value-added premium than ordinary nickel alloy sheet.

Demand for Mu Metal is driven by the need for high-performance magnetic shielding in medical imaging, aerospace electronics, precision measurement, quantum devices, semiconductor equipment, electric power systems and advanced sensors. Business opportunities are strongest in customized shielding parts, ultra-thin foil, high-permeability strip, cryogenic magnetic shielding, precision sensor shielding and low-noise scientific instruments. As electronic systems become smaller, more sensitive and more exposed to electromagnetic interference, suppliers with stable alloy composition control, advanced annealing capability and custom fabrication capacity can capture higher-margin opportunities in medical, defense, laboratory and high-end industrial equipment markets.

This report studies the global Mu Metal production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mu Metal and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Mu Metal that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Mu Metal total production and demand, 2021-2032, (Tons)

Global Mu Metal total production value, 2021-2032, (USD Million)

Global Mu Metal production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Mu Metal consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Mu Metal domestic production, consumption, key domestic manufacturers and share

Global Mu Metal production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Mu Metal production by Nickel Content / Alloy Grade, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Mu Metal production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Mu Metal market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include VACUUMSCHMELZE (VAC), Carpenter Technology Corporation, Magnetic Shield Corporation, VDM Metals, Arnold Magnetic Technologies, MuShield, Daido Steel, Nippon Yakin Kogyo, Shanghai Tankii Alloy Material, Heanjia Super Metals, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Mu Metal market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Nickel Content / Alloy Grade, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Mu Metal Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mu Metal Market, Segmentation by Nickel Content / Alloy Grade:

Low Nickel Permalloy (82% Ni)

Global Mu Metal Market, Segmentation by Maximum Magnetic Permeability Level:

Standard Permeability Grade (10,000?50,000 ?r)

High Permeability Grade (50,000?200,000 ?r)

Ultra-High Permeability Grade (200,000?600,000 ?r)

Extreme Permeability Grade (>600,000 ?r)

Global Mu Metal Market, Segmentation by Product Form:

Sheet & Plate (Thickness: 0.1?3.0 mm)

Foil & Thin Strip (Thickness: 0.002?0.1 mm)

Strip Coil (Width: 5?300 mm)

Wire & Rod (Diameter: 0.1?10 mm)

Global Mu Metal Market, Segmentation by Application:

Medical Equipment

Aerospace and Defense Electronics

Scientific Research Instruments

Semiconductor and Precision Manufacturing Equipment

Magnetic Sensors and Measurement Devices

Power Electronics and Transformers

Communication and Audio Equipment

Automotive Electronics

Others

Companies Profiled:

VACUUMSCHMELZE (VAC)

Carpenter Technology Corporation

Magnetic Shield Corporation

VDM Metals

Arnold Magnetic Technologies

MuShield

Daido Steel

Nippon Yakin Kogyo

Shanghai Tankii Alloy Material

Heanjia Super Metals

Key Questions Answered:

1. How big is the global Mu Metal market?
2. What is the demand of the global Mu Metal market?
3. What is the year over year growth of the global Mu Metal market?
4. What is the production and production value of the global Mu Metal market?
5. Who are the key producers in the global Mu Metal market?
6. What are the growth factors driving the market demand?

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