

Global Zero Boil-off Superconducting Magnet Market Growth 2026-2032

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Abstracts

The global Zero Boil-off Superconducting Magnet market size is predicted to grow from US\$ 737 million in 2025 to US\$ 1086 million in 2032; it is expected to grow at a CAGR of 5.8% from 2026 to 2032.

Zero boil-off superconducting magnets are superconducting magnet systems that achieve near-zero liquid helium evaporation loss using cryogenic cooling technology. Traditional superconducting magnets typically rely on liquid helium to maintain the operation of superconducting coils in extremely low-temperature environments. However, liquid helium continuously evaporates during long-term operation, requiring periodic replenishment. Zero-volatility superconducting magnets, by integrating a cryogenic refrigerator, a re-condensation system, and a highly efficient vacuum insulation structure, re-condense the evaporated helium back into a liquid state for recycling, thus significantly reducing or even virtually eliminating liquid helium consumption.

The upstream of the industry chain mainly includes suppliers of superconducting materials, cryogenic cooling equipment, and precision electronic components. Core raw materials include superconducting wires such as NbTi (niobium-titanium) and Nb₃Sn (niobium-tin), high-purity copper, cryogenic insulation materials, and liquid helium cooling-related components; it also involves key supporting equipment such as GM refrigerators, pulse tube refrigerators, vacuum insulation systems, power control modules, and magnetic field monitoring systems. The midstream segment primarily comprises companies designing, winding, cryogenically integrating, homogenizing magnetic fields, and manufacturing complete zero-volatile superconducting magnet systems. This segment has extremely high technological barriers, requiring capabilities in superconducting magnet design, cryogenic engineering, stable magnetic field control,

and low-liquid helium circulation management. Midstream manufacturers typically supply MRI superconducting magnets, NMR magnets, high-field research magnets, and customized cryogenic magnetic systems. Downstream applications are mainly concentrated in medical MRI (magnetic resonance imaging), NMR spectrometers, high-energy physics, particle accelerators, fusion experiments, quantum computing, and cryogenic research.

In 2025, global sales of zero boil-off superconducting magnets reached 4,800 units, with a production capacity of approximately 6,800 units. The average selling price was US\$157,000 per unit, and the average gross profit margin was 25%-35%.

Zero boil-off superconducting magnets have become a key development direction in the superconducting magnet industry, with the global market primarily dominated by large medical imaging and research equipment companies in Europe, America, and Japan. Medical MRI remains the largest commercial application area, accounting for over 70% of overall demand.

In terms of demand structure, zero-volatility superconducting magnets are currently mainly used in MRI, NMR, high-field research, fusion energy, and quantum computing. MRI is the core source of demand, primarily driven by the global aging population and the increasing demand for diagnostics of tumors and neurological diseases. In recent years, rising liquid helium prices and supply shortages have also significantly accelerated the adoption of 'low liquid helium' and 'zero-volatility' solutions by medical institutions. Simultaneously, the development of high-field NMR, particle physics experiments, nuclear fusion, and quantum computing is driving increased demand for highly stable, high-magnetic-field zero-volatility magnets. Especially in the fusion energy field, high-temperature superconducting magnets have become an important technological route for next-generation compact fusion devices.

In terms of products and technology routes, the industry is continuously evolving from traditional liquid helium bath-type superconducting magnets towards 'low liquid helium,' 'closed-loop recycling,' and 'liquid helium-free' technologies. Currently, the mainstream commercial approach still revolves around NbTi cryogenic superconducting materials combined with GM or Pulse Tube cryogenic refrigerators, achieving zero volatilization through a closed-loop liquid helium cycle.

LP Information, Inc. (LPI) ' newest research report, the 'Zero Boil-off Superconducting Magnet Industry Forecast' looks at past sales and reviews total world Zero Boil-off Superconducting Magnet sales in 2025, providing a comprehensive analysis by region

and market sector of projected Zero Boil-off Superconducting Magnet sales for 2026 through 2032. With Zero Boil-off Superconducting Magnet sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Zero Boil-off Superconducting Magnet industry.

This Insight Report provides a comprehensive analysis of the global Zero Boil-off Superconducting Magnet 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 Zero Boil-off Superconducting Magnet portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Zero Boil-off Superconducting Magnet market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Zero Boil-off Superconducting Magnet 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 Zero Boil-off Superconducting Magnet.

This report presents a comprehensive overview, market shares, and growth opportunities of Zero Boil-off Superconducting Magnet market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Solenoid Type

Open Type

Segmentation by Magnetic Field Strength:

<1T

1-3T

3T

Segmentation by Superconducting Materials:

Low-Temperature Superconductivity

High-Temperature Superconductivity

Segmentation by Application:

Medical Imaging

Scientific Research

Industrial Manufacturing

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Philips Healthcare

JEOL

Bruker

Canon Medical Systems

Japan Superconductor Technology (JASTEC)

Tesla Engineering

American Magnetics

Cryomagnetics

Siemens Healthineers

GE HealthCare

Jianxin Superconducting

United Imaging Healthcare

Xingaoqi

Key Questions Addressed in this Report

What is the 10-year outlook for the global Zero Boil-off Superconducting Magnet market?

What factors are driving Zero Boil-off Superconducting Magnet market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Zero Boil-off Superconducting Magnet market opportunities vary by end market size?

How does Zero Boil-off Superconducting Magnet break out by Type, by Application?

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