

Global Radiation-resistant Superconducting Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Radiation-resistant Superconducting Materials market size is expected to reach \$ 426 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

In 2025, global Radiation-resistant Superconducting Materials production reached approximately 1,500 tons, and the average price was US\$180 thousand per ton. Radiation-resistant superconducting materials are functional superconducting materials capable of maintaining stable superconducting performance under high-energy particle irradiation (such as neutrons, protons, gamma rays, and high-energy ion beams). They are primarily utilized in extreme operating environments, including controlled nuclear fusion devices, particle accelerators, space probes, and high-radiation nuclear energy systems. These materials typically encompass low-temperature superconductors (e.g., NbTi, Nb₃Sn) and high-temperature superconductors (e.g., REBCO, Bi-based superconductors); their radiation resistance is enhanced through lattice structure optimization, defect engineering, nano-doping, and composite structural design. Key performance indicators include the retention rate of critical temperature (T_c), the degradation rate of critical current density (J_c), flux pinning stability, and post-irradiation microstructural stability; these materials serve as the critical foundation for ensuring the long-term, reliable operation of superconducting magnets in high-radiation environments.

Driven by developments in controlled nuclear fusion (such as tokamaks and stellarators), high-energy physics accelerator upgrades, deep-space exploration, and next-generation nuclear energy systems, the demand for radiation-resistant superconducting materials is shifting from basic experimental materials toward those suitable for engineering applications and long-term service. Recent opportunities are

concentrated in areas such as superconducting materials for fusion first-wall and magnet systems, high-field magnets for high-radiation zones, magnet materials for accelerator upgrades, and superconducting electronic systems for space radiation environments. Core industry competitiveness is defined by material lattice damage resistance, post-irradiation critical current retention, flux pinning enhancement technologies, microstructural control capabilities, and long-term stability verification systems. Current industry challenges include high costs for simulating high-energy radiation environments, complex material failure mechanisms, inconsistent performance data across varying irradiation conditions, lengthy engineering verification cycles, and an incomplete understanding of the radiation-resistance mechanisms in high-temperature superconductors. Proposed solutions involve developing multi-scale irradiation simulation platforms, employing nanoscale defect engineering to enhance flux pinning, optimizing REBCO coating structure designs, establishing standardized irradiation test databases, and utilizing computational materials science for performance prediction. Overall, the industry is rapidly evolving from basic material research toward engineering-ready, long-term service, and fusion-grade applications.

This report studies the global Radiation-resistant Superconducting Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Radiation-resistant Superconducting Materials 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 Radiation-resistant Superconducting Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Radiation-resistant Superconducting Materials total production and demand, 2021-2032, (Tons)

Global Radiation-resistant Superconducting Materials total production value, 2021-2032, (USD Million)

Global Radiation-resistant Superconducting Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Radiation-resistant Superconducting Materials consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Radiation-resistant Superconducting Materials domestic production,

consumption, key domestic manufacturers and share

Global Radiation-resistant Superconducting Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Radiation-resistant Superconducting Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Radiation-resistant Superconducting Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Radiation-resistant Superconducting Materials 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 Bruker Energy & Supercon Technologies (BEST), Supercon, Inc, Everson Tesla, Luvata, ASG Superconductors, American Superconductor (AMSC), Sumitomo Electric, Furukawa Electric, Western Superconducting Technologies, Shanghai Superconductor Technology, 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 Radiation-resistant Superconducting Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, 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 Radiation-resistant Superconducting Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Radiation-resistant Superconducting Materials Market, Segmentation by Type:

NbTi-based Radiation-resistant Materials

Nb₃Sn-based Radiation-resistant Materials

REBCO (YBCO) Radiation-resistant Materials

BSCCO-based Radiation-resistant Materials

Global Radiation-resistant Superconducting Materials Market, Segmentation by Irradiation Dose Levels:

<0.1dpa

0.1-1 dpa

1-10 dpa

>10dpa

Global Radiation-resistant Superconducting Materials Market, Segmentation by Application:

Nuclear Fusion Devices

Particle Accelerators

Space Exploration

High-Energy Physics Experiments

Others

Companies Profiled:

Bruker Energy & Supercon Technologies (BEST)

Supercon, Inc

Everson Tesla

Luvata

ASG Superconductors

American Superconductor (AMSC)

Sumitomo Electric

Furukawa Electric

Western Superconducting Technologies

Shanghai Superconductor Technology

Toshiba Energy Systems

Tokamak Energy

Key Questions Answered:

1. How big is the global Radiation-resistant Superconducting Materials market?
2. What is the demand of the global Radiation-resistant Superconducting Materials

market?

3. What is the year over year growth of the global Radiation-resistant Superconducting Materials market?
4. What is the production and production value of the global Radiation-resistant Superconducting Materials market?
5. Who are the key producers in the global Radiation-resistant Superconducting Materials market?
6. What are the growth factors driving the market demand?

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