

# Global Radiation-resistant Superconducting Materials Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Radiation-resistant Superconducting Materials market size was valued at US\$ 278 million in 2025 and is forecast to a readjusted size of US\$ 426 million by 2032 with a CAGR of 6.3% during review period.

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, Nb<sub>3</sub>Sn) 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 is a detailed and comprehensive analysis for global Radiation-resistant Superconducting Materials market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Radiation-resistant Superconducting Materials market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Radiation-resistant Superconducting Materials market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Radiation-resistant Superconducting Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and

average selling prices (US\$/Ton), 2021-2032

Global Radiation-resistant Superconducting Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Radiation-resistant Superconducting Materials

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Radiation-resistant Superconducting Materials market based on the following parameters - company overview, sales quantity, revenue, 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.

## Market Segmentation

Radiation-resistant Superconducting Materials market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

## Market segment by Type

NbTi-based Radiation-resistant Materials

Nb<sub>3</sub>Sn-based Radiation-resistant Materials

REBCO (YBCO) Radiation-resistant Materials

BSCCO-based Radiation-resistant Materials

#### Market segment by Irradiation Dose Levels

<0.1dpa

0.1-1 dpa

1-10 dpa

>10dpa

#### Market segment by Application

Nuclear Fusion Devices

Particle Accelerators

Space Exploration

High-Energy Physics Experiments

Others

#### Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Radiation-resistant Superconducting Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Radiation-resistant Superconducting Materials, with price, sales quantity, revenue, and global market share of Radiation-resistant Superconducting Materials from 2021 to 2026.

Chapter 3, the Radiation-resistant Superconducting Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Radiation-resistant Superconducting Materials breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Radiation-resistant Superconducting Materials market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Radiation-resistant Superconducting Materials.

Chapter 14 and 15, to describe Radiation-resistant Superconducting Materials sales channel, distributors, customers, research findings and conclusion.

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