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Global Low-oxygen Niobium Powder Market Growth 2026-2032

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Abstracts

The global Low-oxygen Niobium Powder market size is predicted to grow from US$ 46.96 million in 2025 to US$ 91.13 million in 2032; it is expected to grow at a CAGR of 9.9% from 2026 to 2032.

Low-oxygen niobium powder refers to elemental niobium metal powder with an oxygen content below 1,000 ppm, typically supplied at a niobium purity of 99.9% or higher. The product is manufactured through processes such as hydride–dehydride treatment, reduction and purification, mechanical pulverization, plasma spheroidization, electron-beam melting, or gas atomization, followed by particle classification and vacuum or inert-gas packaging. Commercial products are available in irregular, angular, and spherical morphologies, with particle sizes ranging from ultrafine powder below 10 ?m to coarse powder above 100 ?m. Oxygen, nitrogen, carbon, hydrogen, tantalum, iron, and other metallic impurities are controlled according to the requirements of downstream processing.

Key Findings

Global low-oxygen niobium powder production reached 292 metric tons in 2025

The average selling price reached US$163 per kilogram in 2025

Typical manufacturer gross margins ranged from 20% to 40%

Products below 500 ppm oxygen represent the market’s highest technical barrier

Market Trends

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The low-oxygen niobium powder industry is moving from conventional irregular metallurgical powders toward application-specific powders with tighter control of oxygen, particle size distribution, morphology, flowability, and batch consistency. For traditional powder metallurgy and alloy production, customers continue to prioritize low interstitial impurities, sintering performance, and cost stability. In additive manufacturing, medical implants, aerospace components, and high-end sputtering targets, spherical morphology, high tap density, narrow particle size distribution, and oxygen control below 500 ppm are becoming increasingly important. Global Advanced Metals discloses oxygen limits below 150 ppm for sputtering-grade niobium and below 200 ppm for commercial-grade material, while several Chinese spherical-powder suppliers offer products with oxygen content of 600 ppm or lower. TANIOBIS has also expanded its high-purity and spherical niobium powder portfolio for additive manufacturing, electronics, medical technology, and alloy applications. These developments indicate that competition is shifting from basic powder availability to impurity engineering, morphology control, customization, and qualification support.

Market Dynamics

Drivers

Demand growth is supported by the expanding use of refractory metals in aerospace propulsion, high-temperature structures, nuclear and energy equipment, medical implants, semiconductor-related sputtering targets, and advanced powder-metallurgy components. Niobium combines a high melting point, corrosion resistance, ductility, superconductivity, and biocompatibility, enabling it to serve both structural and functional applications. Additive manufacturing further increases the addressable market by allowing niobium and niobium-based materials to be processed into complex, lightweight, porous, or internally cooled components that are difficult to manufacture through conventional machining. Increasing localization of critical-material supply chains in China, the United States, and Europe is also encouraging downstream customers to qualify additional regional powder suppliers.

Restraints

The market remains constrained by the limited availability and price volatility of high-purity niobium feedstock, relatively small production batches, long customer-certification cycles, and the high cost of vacuum, inert-atmosphere, purification, spheroidization, and analytical equipment. Powder oxygen content can rise during crushing, classification, storage, transportation, recycling, and repeated use in additive-manufacturing systems,

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making process control necessary throughout the product lifecycle. High-end customers generally require detailed chemical analysis, particle-size data, morphology inspection, flowability testing, and batch traceability, which raises operating costs and limits the ability of small suppliers to enter certified aerospace, medical, or electronic applications.

Opportunities

The most attractive opportunities lie in ultra-low-oxygen powder below 500 ppm, high-purity powder at 99.95% or above, spherical powder for laser and electron-beam additive manufacturing, and customized powder for sputtering targets, cold spraying, hot isostatic pressing, and medical porous structures. Product development can also focus on particle-size windows optimized for specific processes, including fine powder for laser powder-bed fusion, coarser powder for electron-beam melting and directed-energy deposition, and angular powder for cold spray or conventional pressing and sintering. Suppliers capable of providing powder development, parameter matching, recycling evaluation, and application testing can capture more value than companies offering standardized powder alone.

Challenges

Maintaining low oxygen while achieving fine particle size or high sphericity is the central technical challenge. Finer powders have a larger specific surface area and are more susceptible to oxidation, whereas plasma spheroidization and atomization may introduce thermal exposure, passivation requirements, yield losses, or compositional variation. Manufacturers must also balance oxygen content, powder safety, flowability, apparent density, sintering activity, and downstream mechanical performance. Another challenge is market-definition consistency: pure niobium powder, niobium alloy powder, niobium monoxide powder, niobium nitride, niobium carbide, and niobium pentoxide serve different markets and should not be combined when assessing low-oxygen elemental niobium powder.

Industry Chain Analysis

The upstream industry consists of niobium concentrates, ferroniobium and refined niobium intermediates, niobium pentoxide, high-purity niobium ingots, reducing agents, process gases, and specialized packaging materials. Midstream production generally involves refining or reduction, hydrogenation and dehydrogenation, crushing and milling, acid cleaning, vacuum heat treatment, plasma spheroidization or atomization, particle classification, blending, testing, and vacuum packaging. High-value production requires oxygen–nitrogen analyzers, carbon and sulfur analyzers, inductively coupled plasma

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equipment, scanning electron microscopy, laser particle-size analyzers, and flow and density testing systems. Downstream customers include alloy producers, sputtering-target manufacturers, additive-manufacturing service providers, aerospace component manufacturers, medical-device companies, electronics-material suppliers, research institutions, and powder-metallurgy processors. Value creation increases substantially as suppliers move from standard irregular powder to ultra-low-oxygen, spherical, process-qualified, and application-specific grades.

Segment Insights

By purity, the recommended market classification is 99.9% to below 99.95%, 99.95% to below 99.99%, and 99.99% or higher, avoiding overlap between the original purity thresholds. Products at 99.9% purity address general metallurgy, alloy additions, thermal spraying, and conventional powder metallurgy, while higher-purity products are more frequently required for sputtering targets, electronics, superconducting materials, medical applications, and demanding additive-manufacturing processes. Higher purity does not automatically indicate better processing performance, as oxygen, nitrogen, carbon, particle morphology, and particle-size distribution may be more important than total metallic purity in some applications.

By oxygen content, the market should be divided into below 500 ppm and 500 ppm to below 1,000 ppm. The below-500-ppm segment has higher qualification barriers and generally achieves stronger pricing because it requires high-purity feedstock, controlled processing atmospheres, specialized heat treatment, and stricter packaging and storage. Products between 500 ppm and 1,000 ppm remain suitable for many powder-metallurgy, alloying, thermal-spray, and additive-manufacturing applications where customers place greater emphasis on cost and particle characteristics. Morphology and manufacturing technology should be treated as supplementary dimensions, separating irregular or angular powder from spherical powder.

Downstream Market Opportunities

Metallurgy and powder-metallurgy-related applications constitute the principal volume market, including niobium alloy additions, sintered components, sputtering-target feedstock, and high-temperature structural materials. Aerospace and medical applications offer higher unit value because they require stricter impurity control, process validation, traceability, and mechanical-property consistency. Electronics opportunities are concentrated in sputtering targets, thin-film deposition, specialty ignition materials, conductive or superconducting components, and high-purity

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functional materials. Additive manufacturing is an important emerging application rather than a single end-user industry, as spherical niobium powder can be used across aerospace, medical, nuclear, energy, and research markets.

Regional Insights

Global production is concentrated in China, Germany, and the United States. Germany maintains a strong position in high-purity niobium powder and atomized spherical powder through TANIOBIS, while the United States has established low-oxygen metallurgical and additive-manufacturing powder capabilities through Global Advanced Metals. China has developed a broader producer base covering irregular high-purity powder, plasma-spheroidized powder, and customized powder, supported by companies such as Hunan Hongcheng New Material, CNPC Powder China, Stardust Technology, Shanghai Gelin Technology, and Hunan Bangrui New Materials. Hunan Hongcheng reported that China’s combined high-purity low-oxygen tantalum and niobium powder supply exceeded 100 tons in 2023, illustrating the increasing importance of domestic production. China’s competitive advantage is increasingly based on manufacturing scale, flexible customization, and cost, while European and U.S. suppliers retain advantages in long-term customer qualification, premium-grade chemistry, and application engineering.

Competitive Landscape Analysis

The verified core producer group includes TANIOBIS GmbH, Global Advanced Metals, Hunan Hongcheng New Material, CNPC Powder China, Stardust Technology, Shanghai Gelin Technology, and Hunan Bangrui New Materials. TANIOBIS and Global Advanced Metals possess established niobium refining, high-purity powder, and application-development capabilities and compete primarily in premium electronics, alloy, sputtering, and additive-manufacturing markets. Chinese specialists compete through customized particle sizes, irregular and spherical product portfolios, faster delivery, and lower production costs. Hunan Hongcheng has received provincial recognition for its high-purity low-oxygen niobium powder, while CNPC Powder China and Shanghai Gelin Technology disclose spherical niobium products with oxygen content of 600 ppm or lower. Hunan Bangrui is a newer participant developing high-purity ultrafine low-oxygen powder and should be treated as an emerging supplier until its sustained commercial shipments are further established. Ningxia Orient Tantalum Industry has significant niobium-processing capabilities, but its publicly presented portfolio emphasizes niobium monoxide powder and other niobium products; its pure low-oxygen niobium powder supply should therefore remain in the extended verification pool. Elmet Technologies

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has expanded its niobium powder and processing offering through cooperation with TANIOBIS, but the current relationship is more appropriately classified as a strategic processing, application, and distribution partnership than an independent core producer of the target powder.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Low-oxygen Niobium Powder 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 Low-oxygen Niobium Powder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Low-oxygen Niobium Powder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Low-oxygen Niobium Powder 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 Low-oxygen Niobium Powder.

This report presents a comprehensive overview, market shares, and growth opportunities of Low-oxygen Niobium Powder market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

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Purity ?99.9%

Purity ?99.95%

Purity ?99.99%

Segmentation by Oxygen Content:

Oxygen Content <1000ppm

Oxygen Content <500ppm

Segmentation by Application:

Medical

Aerospace

Electronics

Metallurgy

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

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- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa
  - Egypt
  - South Africa
  - Israel
  - Turkey
  - GCC Countries

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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.

TANIOBIS GmbH

Elmet Technologies

Global Advanced Metals

Hunan Hongcheng New Material

Ningxia Orient Tantalum Industry

CNPC Powder China

Stardust Technology

Shanghai Gelin Technology

Hunan Bangrui New Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global Low-oxygen Niobium Powder market?

What factors are driving Low-oxygen Niobium Powder market growth, globally and by region?

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

How do Low-oxygen Niobium Powder market opportunities vary by end market size?

How does Low-oxygen Niobium Powder break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Low-oxygen Niobium Powder Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Low-oxygen Niobium Powder by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Low-oxygen Niobium Powder by Country/Region, 2021, 2025 & 2032
2.2 Low-oxygen Niobium Powder Segment by Type
  2.2.1 Purity ?99.9%
  2.2.2 Purity ?99.95%
  2.2.3 Purity ?99.99%
  2.2.4 Low-oxygen Niobium Powder Sales by Type
    2.2.4.1 Global Low-oxygen Niobium Powder Sales Market Share by Type (2021-2026)
    2.2.4.2 Global Low-oxygen Niobium Powder Revenue and Market Share by Type (2021-2026)
    2.2.4.3 Global Low-oxygen Niobium Powder Sale Price by Type (2021-2026)
2.3 Low-oxygen Niobium Powder Segment by Oxygen Content
  2.3.1 Oxygen Content <1000ppm
  2.3.2 Oxygen Content <500ppm
  2.3.3 Low-oxygen Niobium Powder Sales by Oxygen Content
    2.3.3.1 Global Low-oxygen Niobium Powder Sales Market Share by Oxygen Content (2021-2026)
    2.3.3.2 Global Low-oxygen Niobium Powder Revenue and Market Share by Oxygen Content (2021-2026)

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2.3.3.3 Global Low-oxygen Niobium Powder Sale Price by Oxygen Content (2021-2026)
2.4 Low-oxygen Niobium Powder Segment by Application
2.4.1 Medical
2.4.2 Aerospace
2.4.3 Electronics
2.4.4 Metallurgy
2.4.5 Others
2.4.6 Low-oxygen Niobium Powder Sales by Application
2.4.6.1 Global Low-oxygen Niobium Powder Sale Market Share by Application (2021-2026)
2.4.6.2 Global Low-oxygen Niobium Powder Revenue and Market Share by Application (2021-2026)
2.4.6.3 Global Low-oxygen Niobium Powder Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Low-oxygen Niobium Powder Breakdown Data by Company
3.1.1 Global Low-oxygen Niobium Powder Annual Sales by Company (2021-2026)
3.1.2 Global Low-oxygen Niobium Powder Sales Market Share by Company (2021-2026)
3.2 Global Low-oxygen Niobium Powder Annual Revenue by Company (2021-2026)
3.2.1 Global Low-oxygen Niobium Powder Revenue by Company (2021-2026)
3.2.2 Global Low-oxygen Niobium Powder Revenue Market Share by Company (2021-2026)
3.3 Global Low-oxygen Niobium Powder Sale Price by Company
3.4 Key Manufacturers Low-oxygen Niobium Powder Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Low-oxygen Niobium Powder Product Location Distribution
3.4.2 Players Low-oxygen Niobium Powder Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR LOW-OXYGEN NIOBIUM POWDER BY GEOGRAPHIC REGION

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4.1 World Historic Low-oxygen Niobium Powder Market Size by Geographic Region (2021-2026)
4.1.1 Global Low-oxygen Niobium Powder Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Low-oxygen Niobium Powder Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Low-oxygen Niobium Powder Market Size by Country/Region (2021-2026)
4.2.1 Global Low-oxygen Niobium Powder Annual Sales by Country/Region (2021-2026)
4.2.2 Global Low-oxygen Niobium Powder Annual Revenue by Country/Region (2021-2026)
4.3 Americas Low-oxygen Niobium Powder Sales Growth
4.4 APAC Low-oxygen Niobium Powder Sales Growth
4.5 Europe Low-oxygen Niobium Powder Sales Growth
4.6 Middle East & Africa Low-oxygen Niobium Powder Sales Growth

5 AMERICAS

5.1 Americas Low-oxygen Niobium Powder Sales by Country
5.1.1 Americas Low-oxygen Niobium Powder Sales by Country (2021-2026)
5.1.2 Americas Low-oxygen Niobium Powder Revenue by Country (2021-2026)
5.2 Americas Low-oxygen Niobium Powder Sales by Type (2021-2026)
5.3 Americas Low-oxygen Niobium Powder Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Low-oxygen Niobium Powder Sales by Region
6.1.1 APAC Low-oxygen Niobium Powder Sales by Region (2021-2026)
6.1.2 APAC Low-oxygen Niobium Powder Revenue by Region (2021-2026)
6.2 APAC Low-oxygen Niobium Powder Sales by Type (2021-2026)
6.3 APAC Low-oxygen Niobium Powder Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea

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6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Low-oxygen Niobium Powder by Country
  7.1.1 Europe Low-oxygen Niobium Powder Sales by Country (2021-2026)
  7.1.2 Europe Low-oxygen Niobium Powder Revenue by Country (2021-2026)
7.2 Europe Low-oxygen Niobium Powder Sales by Type (2021-2026)
7.3 Europe Low-oxygen Niobium Powder Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Low-oxygen Niobium Powder by Country
  8.1.1 Middle East & Africa Low-oxygen Niobium Powder Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Low-oxygen Niobium Powder Revenue by Country (2021-2026)
8.2 Middle East & Africa Low-oxygen Niobium Powder Sales by Type (2021-2026)
8.3 Middle East & Africa Low-oxygen Niobium Powder Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

+357 96 030922
info@marketpublishers.com

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Low-oxygen Niobium Powder
10.3 Manufacturing Process Analysis of Low-oxygen Niobium Powder
10.4 Industry Chain Structure of Low-oxygen Niobium Powder

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Low-oxygen Niobium Powder Distributors
11.3 Low-oxygen Niobium Powder Customer

12 WORLD FORECAST REVIEW FOR LOW-OXYGEN NIOBIUM POWDER BY GEOGRAPHIC REGION

12.1 Global Low-oxygen Niobium Powder Market Size Forecast by Region
  12.1.1 Global Low-oxygen Niobium Powder Forecast by Region (2027-2032)
  12.1.2 Global Low-oxygen Niobium Powder Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Low-oxygen Niobium Powder Forecast by Type (2027-2032)
12.7 Global Low-oxygen Niobium Powder Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 TANIOBIS GmbH
  13.1.1 TANIOBIS GmbH Company Information
  13.1.2 TANIOBIS GmbH Low-oxygen Niobium Powder Product Portfolios and Specifications
  13.1.3 TANIOBIS GmbH Low-oxygen Niobium Powder Sales, Revenue, Price and Gross Margin (2021-2026)
  13.1.4 TANIOBIS GmbH Main Business Overview
  13.1.5 TANIOBIS GmbH Latest Developments
13.2 Elmet Technologies

+357 96 030922
info@marketpublishers.com

13.2.1 Elmet Technologies Company Information
13.2.2 Elmet Technologies Low-oxygen Niobium Powder Product Portfolios and Specifications
13.2.3 Elmet Technologies Low-oxygen Niobium Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Elmet Technologies Main Business Overview
13.2.5 Elmet Technologies Latest Developments
13.3 Global Advanced Metals
13.3.1 Global Advanced Metals Company Information
13.3.2 Global Advanced Metals Low-oxygen Niobium Powder Product Portfolios and Specifications
13.3.3 Global Advanced Metals Low-oxygen Niobium Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Global Advanced Metals Main Business Overview
13.3.5 Global Advanced Metals Latest Developments
13.4 Hunan Hongcheng New Material
13.4.1 Hunan Hongcheng New Material Company Information
13.4.2 Hunan Hongcheng New Material Low-oxygen Niobium Powder Product Portfolios and Specifications
13.4.3 Hunan Hongcheng New Material Low-oxygen Niobium Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Hunan Hongcheng New Material Main Business Overview
13.4.5 Hunan Hongcheng New Material Latest Developments
13.5 Ningxia Orient Tantalum Industry
13.5.1 Ningxia Orient Tantalum Industry Company Information
13.5.2 Ningxia Orient Tantalum Industry Low-oxygen Niobium Powder Product Portfolios and Specifications
13.5.3 Ningxia Orient Tantalum Industry Low-oxygen Niobium Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Ningxia Orient Tantalum Industry Main Business Overview
13.5.5 Ningxia Orient Tantalum Industry Latest Developments
13.6 CNPC Powder China
13.6.1 CNPC Powder China Company Information
13.6.2 CNPC Powder China Low-oxygen Niobium Powder Product Portfolios and Specifications
13.6.3 CNPC Powder China Low-oxygen Niobium Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 CNPC Powder China Main Business Overview
13.6.5 CNPC Powder China Latest Developments

+357 96 030922
info@marketpublishers.com

13.7 Stardust Technology
13.7.1 Stardust Technology Company Information
13.7.2 Stardust Technology Low-oxygen Niobium Powder Product Portfolios and Specifications
13.7.3 Stardust Technology Low-oxygen Niobium Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Stardust Technology Main Business Overview
13.7.5 Stardust Technology Latest Developments
13.8 Shanghai Gelin Technology
13.8.1 Shanghai Gelin Technology Company Information
13.8.2 Shanghai Gelin Technology Low-oxygen Niobium Powder Product Portfolios and Specifications
13.8.3 Shanghai Gelin Technology Low-oxygen Niobium Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Shanghai Gelin Technology Main Business Overview
13.8.5 Shanghai Gelin Technology Latest Developments
13.9 Hunan Bangrui New Materials
13.9.1 Hunan Bangrui New Materials Company Information
13.9.2 Hunan Bangrui New Materials Low-oxygen Niobium Powder Product Portfolios and Specifications
13.9.3 Hunan Bangrui New Materials Low-oxygen Niobium Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 Hunan Bangrui New Materials Main Business Overview
13.9.5 Hunan Bangrui New Materials Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Low-oxygen Niobium Powder Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Low-oxygen Niobium Powder Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Purity ?99.9%
Table 4. Major Players of Purity ?99.95%
Table 5. Major Players of Purity ?99.99%
Table 6. Global Low-oxygen Niobium Powder Sales by Type (2021-2026) & (Tons)
Table 7. Global Low-oxygen Niobium Powder Sales Market Share by Type (2021-2026)
Table 8. Global Low-oxygen Niobium Powder Revenue by Type (2021-2026) & ($ million)
Table 9. Global Low-oxygen Niobium Powder Revenue Market Share by Type (2021-2026)
Table 10. Global Low-oxygen Niobium Powder Sale Price by Type (2021-2026) & (US$/Kg)
Table 11. Major Players of Oxygen Content <1000ppm
Table 12. Major Players of Oxygen Content <500ppm
Table 13. Global Low-oxygen Niobium Powder Sales by Oxygen Content (2021-2026) & (Tons)
Table 14. Global Low-oxygen Niobium Powder Sales Market Share by Oxygen Content (2021-2026)
Table 15. Global Low-oxygen Niobium Powder Revenue by Oxygen Content (2021-2026) & ($ million)
Table 16. Global Low-oxygen Niobium Powder Revenue Market Share by Oxygen Content (2021-2026)
Table 17. Global Low-oxygen Niobium Powder Sale Price by Oxygen Content (2021-2026) & (US$/Kg)
Table 18. Global Low-oxygen Niobium Powder Sale by Application (2021-2026) & (Tons)
Table 19. Global Low-oxygen Niobium Powder Sale Market Share by Application (2021-2026)
Table 20. Global Low-oxygen Niobium Powder Revenue by Application (2021-2026) & ($ million)
Table 21. Global Low-oxygen Niobium Powder Revenue Market Share by Application (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 22. Global Low-oxygen Niobium Powder Sale Price by Application (2021-2026) & (US$/Kg)
Table 23. Global Low-oxygen Niobium Powder Sales by Company (2021-2026) & (Tons)
Table 24. Global Low-oxygen Niobium Powder Sales Market Share by Company (2021-2026)
Table 25. Global Low-oxygen Niobium Powder Revenue by Company (2021-2026) & ($ millions)
Table 26. Global Low-oxygen Niobium Powder Revenue Market Share by Company (2021-2026)
Table 27. Global Low-oxygen Niobium Powder Sale Price by Company (2021-2026) & (US$/Kg)
Table 28. Key Manufacturers Low-oxygen Niobium Powder Producing Area Distribution and Sales Area
Table 29. Players Low-oxygen Niobium Powder Products Offered
Table 30. Low-oxygen Niobium Powder Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 31. New Products and Potential Entrants
Table 32. Market M&A Activity & Strategy
Table 33. Global Low-oxygen Niobium Powder Sales by Geographic Region (2021-2026) & (Tons)
Table 34. Global Low-oxygen Niobium Powder Sales Market Share Geographic Region (2021-2026)
Table 35. Global Low-oxygen Niobium Powder Revenue by Geographic Region (2021-2026) & ($ millions)
Table 36. Global Low-oxygen Niobium Powder Revenue Market Share by Geographic Region (2021-2026)
Table 37. Global Low-oxygen Niobium Powder Sales by Country/Region (2021-2026) & (Tons)
Table 38. Global Low-oxygen Niobium Powder Sales Market Share by Country/Region (2021-2026)
Table 39. Global Low-oxygen Niobium Powder Revenue by Country/Region (2021-2026) & ($ millions)
Table 40. Global Low-oxygen Niobium Powder Revenue Market Share by Country/Region (2021-2026)
Table 41. Americas Low-oxygen Niobium Powder Sales by Country (2021-2026) & (Tons)
Table 42. Americas Low-oxygen Niobium Powder Sales Market Share by Country (2021-2026)

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Table 43. Americas Low-oxygen Niobium Powder Revenue by Country (2021-2026) & ($ millions)
Table 44. Americas Low-oxygen Niobium Powder Sales by Type (2021-2026) & (Tons)
Table 45. Americas Low-oxygen Niobium Powder Sales by Application (2021-2026) & (Tons)
Table 46. APAC Low-oxygen Niobium Powder Sales by Region (2021-2026) & (Tons)
Table 47. APAC Low-oxygen Niobium Powder Sales Market Share by Region (2021-2026)
Table 48. APAC Low-oxygen Niobium Powder Revenue by Region (2021-2026) & ($ millions)
Table 49. APAC Low-oxygen Niobium Powder Sales by Type (2021-2026) & (Tons)
Table 50. APAC Low-oxygen Niobium Powder Sales by Application (2021-2026) & (Tons)
Table 51. Europe Low-oxygen Niobium Powder Sales by Country (2021-2026) & (Tons)
Table 52. Europe Low-oxygen Niobium Powder Revenue by Country (2021-2026) & ($ millions)
Table 53. Europe Low-oxygen Niobium Powder Sales by Type (2021-2026) & (Tons)
Table 54. Europe Low-oxygen Niobium Powder Sales by Application (2021-2026) & (Tons)
Table 55. Middle East & Africa Low-oxygen Niobium Powder Sales by Country (2021-2026) & (Tons)
Table 56. Middle East & Africa Low-oxygen Niobium Powder Revenue Market Share by Country (2021-2026)
Table 57. Middle East & Africa Low-oxygen Niobium Powder Sales by Type (2021-2026) & (Tons)
Table 58. Middle East & Africa Low-oxygen Niobium Powder Sales by Application (2021-2026) & (Tons)
Table 59. Key Market Drivers & Growth Opportunities of Low-oxygen Niobium Powder
Table 60. Key Market Challenges & Risks of Low-oxygen Niobium Powder
Table 61. Key Industry Trends of Low-oxygen Niobium Powder
Table 62. Low-oxygen Niobium Powder Raw Material
Table 63. Key Suppliers of Raw Materials
Table 64. Low-oxygen Niobium Powder Distributors List
Table 65. Low-oxygen Niobium Powder Customer List
Table 66. Global Low-oxygen Niobium Powder Sales Forecast by Region (2027-2032) & (Tons)
Table 67. Global Low-oxygen Niobium Powder Revenue Forecast by Region (2027-2032) & ($ millions)
Table 68. Americas Low-oxygen Niobium Powder Sales Forecast by Country

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(2027-2032) & (Tons)
Table 69. Americas Low-oxygen Niobium Powder Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 70. APAC Low-oxygen Niobium Powder Sales Forecast by Region (2027-2032) & (Tons)
Table 71. APAC Low-oxygen Niobium Powder Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 72. Europe Low-oxygen Niobium Powder Sales Forecast by Country (2027-2032) & (Tons)
Table 73. Europe Low-oxygen Niobium Powder Revenue Forecast by Country (2027-2032) & ($ millions)
Table 74. Middle East & Africa Low-oxygen Niobium Powder Sales Forecast by Country (2027-2032) & (Tons)
Table 75. Middle East & Africa Low-oxygen Niobium Powder Revenue Forecast by Country (2027-2032) & ($ millions)
Table 76. Global Low-oxygen Niobium Powder Sales Forecast by Type (2027-2032) & (Tons)
Table 77. Global Low-oxygen Niobium Powder Revenue Forecast by Type (2027-2032) & ($ millions)
Table 78. Global Low-oxygen Niobium Powder Sales Forecast by Application (2027-2032) & (Tons)
Table 79. Global Low-oxygen Niobium Powder Revenue Forecast by Application (2027-2032) & ($ millions)
Table 80. TANIOBIS GmbH Basic Information, Low-oxygen Niobium Powder Manufacturing Base, Sales Area and Its Competitors
Table 81. TANIOBIS GmbH Low-oxygen Niobium Powder Product Portfolios and Specifications
Table 82. TANIOBIS GmbH Low-oxygen Niobium Powder Sales (Tons), Revenue ($ Million), Price (US$/Kg) and Gross Margin (2021-2026)
Table 83. TANIOBIS GmbH Main Business
Table 84. TANIOBIS GmbH Latest Developments
Table 85. Elmet Technologies Basic Information, Low-oxygen Niobium Powder Manufacturing Base, Sales Area and Its Competitors
Table 86. Elmet Technologies Low-oxygen Niobium Powder Product Portfolios and Specifications
Table 87. Elmet Technologies Low-oxygen Niobium Powder Sales (Tons), Revenue ($ Million), Price (US$/Kg) and Gross Margin (2021-2026)
Table 88. Elmet Technologies Main Business
Table 89. Elmet Technologies Latest Developments

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Table 90. Global Advanced Metals Basic Information, Low-oxygen Niobium Powder Manufacturing Base, Sales Area and Its Competitors
Table 91. Global Advanced Metals Low-oxygen Niobium Powder Product Portfolios and Specifications
Table 92. Global Advanced Metals Low-oxygen Niobium Powder Sales (Tons), Revenue ($ Million), Price (US$/Kg) and Gross Margin (2021-2026)
Table 93. Global Advanced Metals Main Business
Table 94. Global Advanced Metals Latest Developments
Table 95. Hunan Hongcheng New Material Basic Information, Low-oxygen Niobium Powder Manufacturing Base, Sales Area and Its Competitors
Table 96. Hunan Hongcheng New Material Low-oxygen Niobium Powder Product Portfolios and Specifications
Table 97. Hunan Hongcheng New Material Low-oxygen Niobium Powder Sales (Tons), Revenue ($ Million), Price (US$/Kg) and Gross Margin (2021-2026)
Table 98. Hunan Hongcheng New Material Main Business
Table 99. Hunan Hongcheng New Material Latest Developments
Table 100. Ningxia Orient Tantalum Industry Basic Information, Low-oxygen Niobium Powder Manufacturing Base, Sales Area and Its Competitors
Table 101. Ningxia Orient Tantalum Industry Low-oxygen Niobium Powder Product Portfolios and Specifications
Table 102. Ningxia Orient Tantalum Industry Low-oxygen Niobium Powder Sales (Tons), Revenue ($ Million), Price (US$/Kg) and Gross Margin (2021-2026)
Table 103. Ningxia Orient Tantalum Industry Main Business
Table 104. Ningxia Orient Tantalum Industry Latest Developments
Table 105. CNPC Powder China Basic Information, Low-oxygen Niobium Powder Manufacturing Base, Sales Area and Its Competitors
Table 106. CNPC Powder China Low-oxygen Niobium Powder Product Portfolios and Specifications
Table 107. CNPC Powder China Low-oxygen Niobium Powder Sales (Tons), Revenue ($ Million), Price (US$/Kg) and Gross Margin (2021-2026)
Table 108. CNPC Powder China Main Business
Table 109. CNPC Powder China Latest Developments
Table 110. Stardust Technology Basic Information, Low-oxygen Niobium Powder Manufacturing Base, Sales Area and Its Competitors
Table 111. Stardust Technology Low-oxygen Niobium Powder Product Portfolios and Specifications
Table 112. Stardust Technology Low-oxygen Niobium Powder Sales (Tons), Revenue ($ Million), Price (US$/Kg) and Gross Margin (2021-2026)
Table 113. Stardust Technology Main Business

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Table 114. Stardust Technology Latest Developments
Table 115. Shanghai Gelin Technology Basic Information, Low-oxygen Niobium Powder Manufacturing Base, Sales Area and Its Competitors
Table 116. Shanghai Gelin Technology Low-oxygen Niobium Powder Product Portfolios and Specifications
Table 117. Shanghai Gelin Technology Low-oxygen Niobium Powder Sales (Tons), Revenue ($ Million), Price (US$/Kg) and Gross Margin (2021-2026)
Table 118. Shanghai Gelin Technology Main Business
Table 119. Shanghai Gelin Technology Latest Developments
Table 120. Hunan Bangrui New Materials Basic Information, Low-oxygen Niobium Powder Manufacturing Base, Sales Area and Its Competitors
Table 121. Hunan Bangrui New Materials Low-oxygen Niobium Powder Product Portfolios and Specifications
Table 122. Hunan Bangrui New Materials Low-oxygen Niobium Powder Sales (Tons), Revenue ($ Million), Price (US$/Kg) and Gross Margin (2021-2026)
Table 123. Hunan Bangrui New Materials Main Business
Table 124. Hunan Bangrui New Materials Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Low-oxygen Niobium Powder
Figure 2. Low-oxygen Niobium Powder Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Low-oxygen Niobium Powder Sales Growth Rate 2021-2032 (Tons)
Figure 7. Global Low-oxygen Niobium Powder Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Low-oxygen Niobium Powder Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Low-oxygen Niobium Powder Sales Market Share by Country/Region (2025)
Figure 10. Low-oxygen Niobium Powder Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Purity ?99.9%
Figure 12. Product Picture of Purity ?99.95%
Figure 13. Product Picture of Purity ?99.99%
Figure 14. Global Low-oxygen Niobium Powder Sales Market Share by Type in 2026
Figure 15. Global Low-oxygen Niobium Powder Revenue Market Share by Type (2021-2026)
Figure 16. Product Picture of Oxygen Content <1000ppm
Figure 17. Product Picture of Oxygen Content <500ppm
Figure 18. Global Low-oxygen Niobium Powder Sales Market Share by Oxygen Content in 2026
Figure 19. Global Low-oxygen Niobium Powder Revenue Market Share by Oxygen Content (2021-2026)
Figure 20. Low-oxygen Niobium Powder Consumed in Medical
Figure 21. Global Low-oxygen Niobium Powder Market: Medical (2021-2026) & (Tons)
Figure 22. Low-oxygen Niobium Powder Consumed in Aerospace
Figure 23. Global Low-oxygen Niobium Powder Market: Aerospace (2021-2026) & (Tons)
Figure 24. Low-oxygen Niobium Powder Consumed in Electronics
Figure 25. Global Low-oxygen Niobium Powder Market: Electronics (2021-2026) & (Tons)
Figure 26. Low-oxygen Niobium Powder Consumed in Metallurgy
Figure 27. Global Low-oxygen Niobium Powder Market: Metallurgy (2021-2026) &

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(Tons)
Figure 28. Low-oxygen Niobium Powder Consumed in Others
Figure 29. Global Low-oxygen Niobium Powder Market: Others (2021-2026) & (Tons)
Figure 30. Global Low-oxygen Niobium Powder Sale Market Share by Application (2025)
Figure 31. Global Low-oxygen Niobium Powder Revenue Market Share by Application in 2025
Figure 32. Low-oxygen Niobium Powder Sales by Company in 2025 (Tons)
Figure 33. Global Low-oxygen Niobium Powder Sales Market Share by Company in 2025
Figure 34. Low-oxygen Niobium Powder Revenue by Company in 2025 ($ millions)
Figure 35. Global Low-oxygen Niobium Powder Revenue Market Share by Company in 2025
Figure 36. Global Low-oxygen Niobium Powder Sales Market Share by Geographic Region (2021-2026)
Figure 37. Global Low-oxygen Niobium Powder Revenue Market Share by Geographic Region in 2025
Figure 38. Americas Low-oxygen Niobium Powder Sales 2021-2026 (Tons)
Figure 39. Americas Low-oxygen Niobium Powder Revenue 2021-2026 ($ millions)
Figure 40. APAC Low-oxygen Niobium Powder Sales 2021-2026 (Tons)
Figure 41. APAC Low-oxygen Niobium Powder Revenue 2021-2026 ($ millions)
Figure 42. Europe Low-oxygen Niobium Powder Sales 2021-2026 (Tons)
Figure 43. Europe Low-oxygen Niobium Powder Revenue 2021-2026 ($ millions)
Figure 44. Middle East & Africa Low-oxygen Niobium Powder Sales 2021-2026 (Tons)
Figure 45. Middle East & Africa Low-oxygen Niobium Powder Revenue 2021-2026 ($ millions)
Figure 46. Americas Low-oxygen Niobium Powder Sales Market Share by Country in 2025
Figure 47. Americas Low-oxygen Niobium Powder Revenue Market Share by Country (2021-2026)
Figure 48. Americas Low-oxygen Niobium Powder Sales Market Share by Type (2021-2026)
Figure 49. Americas Low-oxygen Niobium Powder Sales Market Share by Application (2021-2026)
Figure 50. United States Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 51. Canada Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 52. Mexico Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($

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millions)
Figure 53. Brazil Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 54. APAC Low-oxygen Niobium Powder Sales Market Share by Region in 2025
Figure 55. APAC Low-oxygen Niobium Powder Revenue Market Share by Region (2021-2026)
Figure 56. APAC Low-oxygen Niobium Powder Sales Market Share by Type (2021-2026)
Figure 57. APAC Low-oxygen Niobium Powder Sales Market Share by Application (2021-2026)
Figure 58. China Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 59. Japan Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 60. South Korea Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 61. Southeast Asia Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 62. India Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 63. Australia Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 64. China Taiwan Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 65. Europe Low-oxygen Niobium Powder Sales Market Share by Country in 2025
Figure 66. Europe Low-oxygen Niobium Powder Revenue Market Share by Country (2021-2026)
Figure 67. Europe Low-oxygen Niobium Powder Sales Market Share by Type (2021-2026)
Figure 68. Europe Low-oxygen Niobium Powder Sales Market Share by Application (2021-2026)
Figure 69. Germany Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 70. France Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 71. UK Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 72. Italy Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 73. Russia Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 74. Middle East & Africa Low-oxygen Niobium Powder Sales Market Share by Country (2021-2026)
Figure 75. Middle East & Africa Low-oxygen Niobium Powder Sales Market Share by

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Type (2021-2026)
Figure 76. Middle East & Africa Low-oxygen Niobium Powder Sales Market Share by Application (2021-2026)
Figure 77. Egypt Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 78. South Africa Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 79. Israel Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 80. Turkey Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 81. GCC Countries Low-oxygen Niobium Powder Revenue Growth 2021-2026 ($ millions)
Figure 82. Manufacturing Cost Structure Analysis of Low-oxygen Niobium Powder in 2026
Figure 83. Manufacturing Process Analysis of Low-oxygen Niobium Powder
Figure 84. Industry Chain Structure of Low-oxygen Niobium Powder
Figure 85. Channels of Distribution
Figure 86. Global Low-oxygen Niobium Powder Sales Market Forecast by Region (2027-2032)
Figure 87. Global Low-oxygen Niobium Powder Revenue Market Share Forecast by Region (2027-2032)
Figure 88. Global Low-oxygen Niobium Powder Sales Market Share Forecast by Type (2027-2032)
Figure 89. Global Low-oxygen Niobium Powder Revenue Market Share Forecast by Type (2027-2032)
Figure 90. Global Low-oxygen Niobium Powder Sales Market Share Forecast by Application (2027-2032)
Figure 91. Global Low-oxygen Niobium Powder Revenue Market Share Forecast by Application (2027-2032)

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