

Global High Nitrogen Steels (HNS) Market Growth 2026-2032

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Abstracts

The global High Nitrogen Steels (HNS) market size is predicted to grow from US\$ 454 million in 2025 to US\$ 809 million in 2032; it is expected to grow at a CAGR of 8.9% from 2026 to 2032.

High Nitrogen Steels (HNS) are steels intentionally alloyed with nitrogen at levels higher than can typically be retained under atmospheric-pressure melting/processing, with nitrogen present mainly as interstitial solid solution (and/or controlled nitrides depending on design). In stainless matrices, a commonly used criterion is that nitrogen-alloyed stainless becomes "high-nitrogen" when N exceeds ~0.4 wt% in an austenitic matrix, while for ferritic or martensitic stainless the "high-nitrogen" threshold is often referenced around >0.08 wt% because nitrogen solubility is much lower in those matrices.

The upstream of HNS is defined by both chemistry and processing capability. Besides base inputs (iron, chromium-bearing alloys, manganese, molybdenum, etc.), the critical upstream "feed" is nitrogen (as nitrogen gas under pressure and/or nitrogen-bearing additives such as nitrides), because dissolving high nitrogen into molten steel requires special measures. Downstream demand is driven by nitrogen's ability to deliver high strength without sacrificing corrosion resistance, stabilize austenite, and enable non-magnetic or high-performance stainless designs in certain cases. Reported industrial use cases for PESR-produced high-nitrogen steels include aerospace/aviation, energy, and petrochemical sectors; meanwhile, a major high-value downstream is biomedical materials, where nickel-free/high-nitrogen austenitic stainless steels are studied and used as alternatives to conventional Ni-containing medical stainless (e.g., 316L) for devices such as coronary stents due to the combined strength, corrosion resistance, and biocompatibility considerations.

In 2025, global sales of High Nitrogen Steels (HNS) reached approximately 67 K tons, with an average global market price of around US\$ 6,876/ton. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 20% to 35%.

Demand for High Nitrogen Steels (HNS) is driven by a combination of higher strength, improved corrosion resistance, and reduced allergy risk. In medical implants and surgical devices, concerns around metal-ion release and nickel sensitivity make nitrogen-stabilized, nickel-free or nickel-lean austenitic systems attractive; in marine, chemical, and high-end equipment, nitrogen's solid-solution strengthening and pitting resistance support lightweighting, thinner sections, and longer maintenance intervals. At the same time, powder metallurgy and additive manufacturing extend high-nitrogen design beyond melt processing into powder production and solid-state routes. Commercial examples of nickel-free, high-nitrogen stainless powders already target AM/MIM applications.

High-nitrogen alloying is not trivial: nitrogen solubility in the melt is constrained by temperature and nitrogen partial pressure, and exceeding atmospheric limits typically requires pressurized melting, pressurized ESR, or powder routes. These come with higher capex, tighter process windows, and stringent quality control, so capacity expansion tends to be project-based rather than purely incremental. For buyers, qualification, traceability, and manufacturability (welding/hot working/heat treatment sensitivity) often become the real adoption gates.

As a result, HNS behaves more like a specialty materials market with application-specific solutions: leading suppliers build defensibility through grade systems, powder specifications, clean remelting practices, and validation data, often co-developing with medical, oil & gas/chemical, and AM customers. Future growth is likely to come from selective substitution of high-nickel alloys, expansion in non-magnetic high-strength corrosion-resistant components, and deeper penetration of powders in complex near-net-shape parts.

LP Information, Inc. (LPI)'s newest research report, the "High Nitrogen Steels (HNS) Industry Forecast" looks at past sales and reviews total world High Nitrogen Steels (HNS) sales in 2025, providing a comprehensive analysis by region and market sector of projected High Nitrogen Steels (HNS) sales for 2026 through 2032. With High Nitrogen Steels (HNS) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High Nitrogen Steels

(HNS) industry.

This Insight Report provides a comprehensive analysis of the global High Nitrogen Steels (HNS) 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 High Nitrogen Steels (HNS) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High Nitrogen Steels (HNS) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High Nitrogen Steels (HNS) 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 High Nitrogen Steels (HNS).

This report presents a comprehensive overview, market shares, and growth opportunities of High Nitrogen Steels (HNS) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

N?0.6%

N?0.6%

Segmentation by Alloy System:

Cr?Mn?N System

Cr?Ni?Mo?N System

Other

Segmentation by Manufacturing Route:

Pressurized Induction Melting

Pressurized Electroslag Remelting

Other

Segmentation by Application:

Transportation

Medical Devices

Military & Aerospace

Other

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.

Carpenter Technology

Outokumpu

GKN Powder Metallurgy

Swiss Steel Group

Schoeller-Bleckmann

DAIDO STEEL

GMH Gruppe

voestalpine Böhler Edelstahl

Sandvik

POSCO

Baoshan Iron & Steel Steel

Yangjiang Shibazi Precision Special Steel

Key Questions Addressed in this Report

What is the 10-year outlook for the global High Nitrogen Steels (HNS) market?

What factors are driving High Nitrogen Steels (HNS) market growth, globally and by region?

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

How do High Nitrogen Steels (HNS) market opportunities vary by end market size?

How does High Nitrogen Steels (HNS) break out by Type, by Application?

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 High Nitrogen Steels (HNS) Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for High Nitrogen Steels (HNS) by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for High Nitrogen Steels (HNS) by Country/Region, 2021, 2025 & 2032
- 2.2 High Nitrogen Steels (HNS) Segment by Type
 - 2.2.1 N $\geq$ 0.6%
 - 2.2.2 N $\geq$ 0.6%
 - 2.2.3 High Nitrogen Steels (HNS) Sales by Type
 - 2.2.3.1 Global High Nitrogen Steels (HNS) Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global High Nitrogen Steels (HNS) Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global High Nitrogen Steels (HNS) Sale Price by Type (2021-2026)
- 2.3 High Nitrogen Steels (HNS) Segment by Alloy System
 - 2.3.1 Cr-Mn-N System
 - 2.3.2 Cr-Ni-Mo-N System
 - 2.3.3 Other
 - 2.3.4 High Nitrogen Steels (HNS) Sales by Alloy System
 - 2.3.4.1 Global High Nitrogen Steels (HNS) Sales Market Share by Alloy System (2021-2026)
 - 2.3.4.2 Global High Nitrogen Steels (HNS) Revenue and Market Share by Alloy System (2021-2026)
 - 2.3.4.3 Global High Nitrogen Steels (HNS) Sale Price by Alloy System (2021-2026)

2.4 High Nitrogen Steels (HNS) Segment by Manufacturing Route

2.4.1 Pressurized Induction Melting

2.4.2 Pressurized Electroslag Remelting

2.4.3 Other

2.4.4 High Nitrogen Steels (HNS) Sales by Manufacturing Route

2.4.4.1 Global High Nitrogen Steels (HNS) Sales Market Share by Manufacturing Route (2021-2026)

2.4.4.2 Global High Nitrogen Steels (HNS) Revenue and Market Share by Manufacturing Route (2021-2026)

2.4.4.3 Global High Nitrogen Steels (HNS) Sale Price by Manufacturing Route (2021-2026)

2.5 High Nitrogen Steels (HNS) Segment by Application

2.5.1 Transportation

2.5.2 Medical Devices

2.5.3 Military & Aerospace

2.5.4 Other

2.5.5 High Nitrogen Steels (HNS) Sales by Application

2.5.5.1 Global High Nitrogen Steels (HNS) Sale Market Share by Application (2021-2026)

2.5.5.2 Global High Nitrogen Steels (HNS) Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global High Nitrogen Steels (HNS) Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global High Nitrogen Steels (HNS) Breakdown Data by Company

3.1.1 Global High Nitrogen Steels (HNS) Annual Sales by Company (2021-2026)

3.1.2 Global High Nitrogen Steels (HNS) Sales Market Share by Company (2021-2026)

3.2 Global High Nitrogen Steels (HNS) Annual Revenue by Company (2021-2026)

3.2.1 Global High Nitrogen Steels (HNS) Revenue by Company (2021-2026)

3.2.2 Global High Nitrogen Steels (HNS) Revenue Market Share by Company (2021-2026)

3.3 Global High Nitrogen Steels (HNS) Sale Price by Company

3.4 Key Manufacturers High Nitrogen Steels (HNS) Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers High Nitrogen Steels (HNS) Product Location Distribution

3.4.2 Players High Nitrogen Steels (HNS) 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 HIGH NITROGEN STEELS (HNS) BY GEOGRAPHIC REGION

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

5 AMERICAS

- 5.1 Americas High Nitrogen Steels (HNS) Sales by Country
 - 5.1.1 Americas High Nitrogen Steels (HNS) Sales by Country (2021-2026)
 - 5.1.2 Americas High Nitrogen Steels (HNS) Revenue by Country (2021-2026)
- 5.2 Americas High Nitrogen Steels (HNS) Sales by Type (2021-2026)
- 5.3 Americas High Nitrogen Steels (HNS) Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC High Nitrogen Steels (HNS) Sales by Region

- 6.1.1 APAC High Nitrogen Steels (HNS) Sales by Region (2021-2026)
- 6.1.2 APAC High Nitrogen Steels (HNS) Revenue by Region (2021-2026)
- 6.2 APAC High Nitrogen Steels (HNS) Sales by Type (2021-2026)
- 6.3 APAC High Nitrogen Steels (HNS) Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe High Nitrogen Steels (HNS) by Country
 - 7.1.1 Europe High Nitrogen Steels (HNS) Sales by Country (2021-2026)
 - 7.1.2 Europe High Nitrogen Steels (HNS) Revenue by Country (2021-2026)
- 7.2 Europe High Nitrogen Steels (HNS) Sales by Type (2021-2026)
- 7.3 Europe High Nitrogen Steels (HNS) 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 High Nitrogen Steels (HNS) by Country
 - 8.1.1 Middle East & Africa High Nitrogen Steels (HNS) Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa High Nitrogen Steels (HNS) Revenue by Country (2021-2026)
- 8.2 Middle East & Africa High Nitrogen Steels (HNS) Sales by Type (2021-2026)
- 8.3 Middle East & Africa High Nitrogen Steels (HNS) 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

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of High Nitrogen Steels (HNS)

10.3 Manufacturing Process Analysis of High Nitrogen Steels (HNS)

10.4 Industry Chain Structure of High Nitrogen Steels (HNS)

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 High Nitrogen Steels (HNS) Distributors

11.3 High Nitrogen Steels (HNS) Customer

12 WORLD FORECAST REVIEW FOR HIGH NITROGEN STEELS (HNS) BY GEOGRAPHIC REGION

12.1 Global High Nitrogen Steels (HNS) Market Size Forecast by Region

12.1.1 Global High Nitrogen Steels (HNS) Forecast by Region (2027-2032)

12.1.2 Global High Nitrogen Steels (HNS) 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 High Nitrogen Steels (HNS) Forecast by Type (2027-2032)

12.7 Global High Nitrogen Steels (HNS) Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Carpenter Technology

13.1.1 Carpenter Technology Company Information

13.1.2 Carpenter Technology High Nitrogen Steels (HNS) Product Portfolios and Specifications

13.1.3 Carpenter Technology High Nitrogen Steels (HNS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Carpenter Technology Main Business Overview

13.1.5 Carpenter Technology Latest Developments

13.2 Outokumpu

13.2.1 Outokumpu Company Information

13.2.2 Outokumpu High Nitrogen Steels (HNS) Product Portfolios and Specifications

13.2.3 Outokumpu High Nitrogen Steels (HNS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Outokumpu Main Business Overview

13.2.5 Outokumpu Latest Developments

13.3 GKN Powder Metallurgy

13.3.1 GKN Powder Metallurgy Company Information

13.3.2 GKN Powder Metallurgy High Nitrogen Steels (HNS) Product Portfolios and Specifications

13.3.3 GKN Powder Metallurgy High Nitrogen Steels (HNS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 GKN Powder Metallurgy Main Business Overview

13.3.5 GKN Powder Metallurgy Latest Developments

13.4 Swiss Steel Group

13.4.1 Swiss Steel Group Company Information

13.4.2 Swiss Steel Group High Nitrogen Steels (HNS) Product Portfolios and Specifications

13.4.3 Swiss Steel Group High Nitrogen Steels (HNS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Swiss Steel Group Main Business Overview

13.4.5 Swiss Steel Group Latest Developments

13.5 Schoeller-Bleckmann

13.5.1 Schoeller-Bleckmann Company Information

13.5.2 Schoeller-Bleckmann High Nitrogen Steels (HNS) Product Portfolios and Specifications

13.5.3 Schoeller-Bleckmann High Nitrogen Steels (HNS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Schoeller-Bleckmann Main Business Overview

13.5.5 Schoeller-Bleckmann Latest Developments

13.6 DAIDO STEEL

13.6.1 DAIDO STEEL Company Information

13.6.2 DAIDO STEEL High Nitrogen Steels (HNS) Product Portfolios and Specifications

13.6.3 DAIDO STEEL High Nitrogen Steels (HNS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 DAIDO STEEL Main Business Overview

13.6.5 DAIDO STEEL Latest Developments

13.7 GMH Gruppe

13.7.1 GMH Gruppe Company Information

13.7.2 GMH Gruppe High Nitrogen Steels (HNS) Product Portfolios and Specifications

13.7.3 GMH Gruppe High Nitrogen Steels (HNS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 GMH Gruppe Main Business Overview

13.7.5 GMH Gruppe Latest Developments

13.8 voestalpine B?HLER Edelstahl

13.8.1 voestalpine B?HLER Edelstahl Company Information

13.8.2 voestalpine B?HLER Edelstahl High Nitrogen Steels (HNS) Product Portfolios and Specifications

13.8.3 voestalpine B?HLER Edelstahl High Nitrogen Steels (HNS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 voestalpine B?HLER Edelstahl Main Business Overview

13.8.5 voestalpine B?HLER Edelstahl Latest Developments

13.9 Sandvik

13.9.1 Sandvik Company Information

13.9.2 Sandvik High Nitrogen Steels (HNS) Product Portfolios and Specifications

13.9.3 Sandvik High Nitrogen Steels (HNS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Sandvik Main Business Overview

13.9.5 Sandvik Latest Developments

13.10 POSCO

13.10.1 POSCO Company Information

13.10.2 POSCO High Nitrogen Steels (HNS) Product Portfolios and Specifications

13.10.3 POSCO High Nitrogen Steels (HNS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 POSCO Main Business Overview

13.10.5 POSCO Latest Developments

13.11 Baoshan Iron & Steel Steel

13.11.1 Baoshan Iron & Steel Steel Company Information

13.11.2 Baoshan Iron & Steel Steel High Nitrogen Steels (HNS) Product Portfolios and Specifications

13.11.3 Baoshan Iron & Steel Steel High Nitrogen Steels (HNS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Baoshan Iron & Steel Steel Main Business Overview

13.11.5 Baoshan Iron & Steel Steel Latest Developments

13.12 Yangjiang Shibazi Precision Special Steel

13.12.1 Yangjiang Shibazi Precision Special Steel Company Information

13.12.2 Yangjiang Shibazi Precision Special Steel High Nitrogen Steels (HNS) Product Portfolios and Specifications

13.12.3 Yangjiang Shibazi Precision Special Steel High Nitrogen Steels (HNS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Yangjiang Shibazi Precision Special Steel Main Business Overview

13.12.5 Yangjiang Shibazi Precision Special Steel Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. High Nitrogen Steels (HNS) Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. High Nitrogen Steels (HNS) Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of N₂O.6%

Table 4. Major Players of N₂O.6%

Table 5. Global High Nitrogen Steels (HNS) Sales by Type (2021-2026) & (Tons)

Table 6. Global High Nitrogen Steels (HNS) Sales Market Share by Type (2021-2026)

Table 7. Global High Nitrogen Steels (HNS) Revenue by Type (2021-2026) & (\$ million)

Table 8. Global High Nitrogen Steels (HNS) Revenue Market Share by Type (2021-2026)

Table 9. Global High Nitrogen Steels (HNS) Sale Price by Type (2021-2026) & (US\$/Ton)

Table 10. Major Players of Cr-Mn-N System

Table 11. Major Players of Cr-Ni-Mo-N System

Table 12. Major Players of Other

Table 13. Global High Nitrogen Steels (HNS) Sales by Alloy System (2021-2026) & (Tons)

Table 14. Global High Nitrogen Steels (HNS) Sales Market Share by Alloy System (2021-2026)

Table 15. Global High Nitrogen Steels (HNS) Revenue by Alloy System (2021-2026) & (\$ million)

Table 16. Global High Nitrogen Steels (HNS) Revenue Market Share by Alloy System (2021-2026)

Table 17. Global High Nitrogen Steels (HNS) Sale Price by Alloy System (2021-2026) & (US\$/Ton)

Table 18. Major Players of Pressurized Induction Melting

Table 19. Major Players of Pressurized Electroslag Remelting

Table 20. Major Players of Other

Table 21. Global High Nitrogen Steels (HNS) Sales by Manufacturing Route (2021-2026) & (Tons)

Table 22. Global High Nitrogen Steels (HNS) Sales Market Share by Manufacturing Route (2021-2026)

Table 23. Global High Nitrogen Steels (HNS) Revenue by Manufacturing Route (2021-2026) & (\$ million)

Table 24. Global High Nitrogen Steels (HNS) Revenue Market Share by Manufacturing Route (2021-2026)

Table 25. Global High Nitrogen Steels (HNS) Sale Price by Manufacturing Route (2021-2026) & (US\$/Ton)

Table 26. Global High Nitrogen Steels (HNS) Sale by Application (2021-2026) & (Tons)

Table 27. Global High Nitrogen Steels (HNS) Sale Market Share by Application (2021-2026)

Table 28. Global High Nitrogen Steels (HNS) Revenue by Application (2021-2026) & (\$ million)

Table 29. Global High Nitrogen Steels (HNS) Revenue Market Share by Application (2021-2026)

Table 30. Global High Nitrogen Steels (HNS) Sale Price by Application (2021-2026) & (US\$/Ton)

Table 31. Global High Nitrogen Steels (HNS) Sales by Company (2021-2026) & (Tons)

Table 32. Global High Nitrogen Steels (HNS) Sales Market Share by Company (2021-2026)

Table 33. Global High Nitrogen Steels (HNS) Revenue by Company (2021-2026) & (\$ millions)

Table 34. Global High Nitrogen Steels (HNS) Revenue Market Share by Company (2021-2026)

Table 35. Global High Nitrogen Steels (HNS) Sale Price by Company (2021-2026) & (US\$/Ton)

Table 36. Key Manufacturers High Nitrogen Steels (HNS) Producing Area Distribution and Sales Area

Table 37. Players High Nitrogen Steels (HNS) Products Offered

Table 38. High Nitrogen Steels (HNS) Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 39. New Products and Potential Entrants

Table 40. Market M&A Activity & Strategy

Table 41. Global High Nitrogen Steels (HNS) Sales by Geographic Region (2021-2026) & (Tons)

Table 42. Global High Nitrogen Steels (HNS) Sales Market Share Geographic Region (2021-2026)

Table 43. Global High Nitrogen Steels (HNS) Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 44. Global High Nitrogen Steels (HNS) Revenue Market Share by Geographic Region (2021-2026)

Table 45. Global High Nitrogen Steels (HNS) Sales by Country/Region (2021-2026) & (Tons)

Table 46. Global High Nitrogen Steels (HNS) Sales Market Share by Country/Region (2021-2026)

Table 47. Global High Nitrogen Steels (HNS) Revenue by Country/Region (2021-2026) & (\$ millions)

Table 48. Global High Nitrogen Steels (HNS) Revenue Market Share by Country/Region (2021-2026)

Table 49. Americas High Nitrogen Steels (HNS) Sales by Country (2021-2026) & (Tons)

Table 50. Americas High Nitrogen Steels (HNS) Sales Market Share by Country (2021-2026)

Table 51. Americas High Nitrogen Steels (HNS) Revenue by Country (2021-2026) & (\$ millions)

Table 52. Americas High Nitrogen Steels (HNS) Sales by Type (2021-2026) & (Tons)

Table 53. Americas High Nitrogen Steels (HNS) Sales by Application (2021-2026) & (Tons)

Table 54. APAC High Nitrogen Steels (HNS) Sales by Region (2021-2026) & (Tons)

Table 55. APAC High Nitrogen Steels (HNS) Sales Market Share by Region (2021-2026)

Table 56. APAC High Nitrogen Steels (HNS) Revenue by Region (2021-2026) & (\$ millions)

Table 57. APAC High Nitrogen Steels (HNS) Sales by Type (2021-2026) & (Tons)

Table 58. APAC High Nitrogen Steels (HNS) Sales by Application (2021-2026) & (Tons)

Table 59. Europe High Nitrogen Steels (HNS) Sales by Country (2021-2026) & (Tons)

Table 60. Europe High Nitrogen Steels (HNS) Revenue by Country (2021-2026) & (\$ millions)

Table 61. Europe High Nitrogen Steels (HNS) Sales by Type (2021-2026) & (Tons)

Table 62. Europe High Nitrogen Steels (HNS) Sales by Application (2021-2026) & (Tons)

Table 63. Middle East & Africa High Nitrogen Steels (HNS) Sales by Country (2021-2026) & (Tons)

Table 64. Middle East & Africa High Nitrogen Steels (HNS) Revenue Market Share by Country (2021-2026)

Table 65. Middle East & Africa High Nitrogen Steels (HNS) Sales by Type (2021-2026) & (Tons)

Table 66. Middle East & Africa High Nitrogen Steels (HNS) Sales by Application (2021-2026) & (Tons)

Table 67. Key Market Drivers & Growth Opportunities of High Nitrogen Steels (HNS)

Table 68. Key Market Challenges & Risks of High Nitrogen Steels (HNS)

Table 69. Key Industry Trends of High Nitrogen Steels (HNS)

Table 70. High Nitrogen Steels (HNS) Raw Material

Table 71. Key Suppliers of Raw Materials
Table 72. High Nitrogen Steels (HNS) Distributors List
Table 73. High Nitrogen Steels (HNS) Customer List
Table 74. Global High Nitrogen Steels (HNS) Sales Forecast by Region (2027-2032) & (Tons)
Table 75. Global High Nitrogen Steels (HNS) Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 76. Americas High Nitrogen Steels (HNS) Sales Forecast by Country (2027-2032) & (Tons)
Table 77. Americas High Nitrogen Steels (HNS) Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 78. APAC High Nitrogen Steels (HNS) Sales Forecast by Region (2027-2032) & (Tons)
Table 79. APAC High Nitrogen Steels (HNS) Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 80. Europe High Nitrogen Steels (HNS) Sales Forecast by Country (2027-2032) & (Tons)
Table 81. Europe High Nitrogen Steels (HNS) Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 82. Middle East & Africa High Nitrogen Steels (HNS) Sales Forecast by Country (2027-2032) & (Tons)
Table 83. Middle East & Africa High Nitrogen Steels (HNS) Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 84. Global High Nitrogen Steels (HNS) Sales Forecast by Type (2027-2032) & (Tons)
Table 85. Global High Nitrogen Steels (HNS) Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 86. Global High Nitrogen Steels (HNS) Sales Forecast by Application (2027-2032) & (Tons)
Table 87. Global High Nitrogen Steels (HNS) Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 88. Carpenter Technology Basic Information, High Nitrogen Steels (HNS) Manufacturing Base, Sales Area and Its Competitors
Table 89. Carpenter Technology High Nitrogen Steels (HNS) Product Portfolios and Specifications
Table 90. Carpenter Technology High Nitrogen Steels (HNS) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 91. Carpenter Technology Main Business
Table 92. Carpenter Technology Latest Developments

Table 93. Outokumpu Basic Information, High Nitrogen Steels (HNS) Manufacturing Base, Sales Area and Its Competitors

Table 94. Outokumpu High Nitrogen Steels (HNS) Product Portfolios and Specifications

Table 95. Outokumpu High Nitrogen Steels (HNS) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 96. Outokumpu Main Business

Table 97. Outokumpu Latest Developments

Table 98. GKN Powder Metallurgy Basic Information, High Nitrogen Steels (HNS) Manufacturing Base, Sales Area and Its Competitors

Table 99. GKN Powder Metallurgy High Nitrogen Steels (HNS) Product Portfolios and Specifications

Table 100. GKN Powder Metallurgy High Nitrogen Steels (HNS) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 101. GKN Powder Metallurgy Main Business

Table 102. GKN Powder Metallurgy Latest Developments

Table 103. Swiss Steel Group Basic Information, High Nitrogen Steels (HNS) Manufacturing Base, Sales Area and Its Competitors

Table 104. Swiss Steel Group High Nitrogen Steels (HNS) Product Portfolios and Specifications

Table 105. Swiss Steel Group High Nitrogen Steels (HNS) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 106. Swiss Steel Group Main Business

Table 107. Swiss Steel Group Latest Developments

Table 108. Schoeller-Bleckmann Basic Information, High Nitrogen Steels (HNS) Manufacturing Base, Sales Area and Its Competitors

Table 109. Schoeller-Bleckmann High Nitrogen Steels (HNS) Product Portfolios and Specifications

Table 110. Schoeller-Bleckmann High Nitrogen Steels (HNS) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 111. Schoeller-Bleckmann Main Business

Table 112. Schoeller-Bleckmann Latest Developments

Table 113. DAIDO STEEL Basic Information, High Nitrogen Steels (HNS) Manufacturing Base, Sales Area and Its Competitors

Table 114. DAIDO STEEL High Nitrogen Steels (HNS) Product Portfolios and Specifications

Table 115. DAIDO STEEL High Nitrogen Steels (HNS) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 116. DAIDO STEEL Main Business

Table 117. DAIDO STEEL Latest Developments

Table 118. GMH Gruppe Basic Information, High Nitrogen Steels (HNS) Manufacturing Base, Sales Area and Its Competitors

Table 119. GMH Gruppe High Nitrogen Steels (HNS) Product Portfolios and Specifications

Table 120. GMH Gruppe High Nitrogen Steels (HNS) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 121. GMH Gruppe Main Business

Table 122. GMH Gruppe Latest Developments

Table 123. voestalpine B?HLER Edelstahl Basic Information, High Nitrogen Steels (HNS) Manufacturing Base, Sales Area and Its Competitors

Table 124. voestalpine B?HLER Edelstahl High Nitrogen Steels (HNS) Product Portfolios and Specifications

Table 125. voestalpine B?HLER Edelstahl High Nitrogen Steels (HNS) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 126. voestalpine B?HLER Edelstahl Main Business

Table 127. voestalpine B?HLER Edelstahl Latest Developments

Table 128. Sandvik Basic Information, High Nitrogen Steels (HNS) Manufacturing Base, Sales Area and Its Competitors

Table 129. Sandvik High Nitrogen Steels (HNS) Product Portfolios and Specifications

Table 130. Sandvik High Nitrogen Steels (HNS) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 131. Sandvik Main Business

Table 132. Sandvik Latest Developments

Table 133. POSCO Basic Information, High Nitrogen Steels (HNS) Manufacturing Base, Sales Area and Its Competitors

Table 134. POSCO High Nitrogen Steels (HNS) Product Portfolios and Specifications

Table 135. POSCO High Nitrogen Steels (HNS) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 136. POSCO Main Business

Table 137. POSCO Latest Developments

Table 138. Baoshan Iron & Steel Steel Basic Information, High Nitrogen Steels (HNS) Manufacturing Base, Sales Area and Its Competitors

Table 139. Baoshan Iron & Steel Steel High Nitrogen Steels (HNS) Product Portfolios and Specifications

Table 140. Baoshan Iron & Steel Steel High Nitrogen Steels (HNS) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 141. Baoshan Iron & Steel Steel Main Business

Table 142. Baoshan Iron & Steel Steel Latest Developments

Table 143. Yangjiang Shibazi Precision Special Steel Basic Information, High Nitrogen

Steels (HNS) Manufacturing Base, Sales Area and Its Competitors

Table 144. Yangjiang Shibazi Precision Special Steel High Nitrogen Steels (HNS)
Product Portfolios and Specifications

Table 145. Yangjiang Shibazi Precision Special Steel High Nitrogen Steels (HNS) Sales
(Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 146. Yangjiang Shibazi Precision Special Steel Main Business

Table 147. Yangjiang Shibazi Precision Special Steel Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of High Nitrogen Steels (HNS)
- Figure 2. High Nitrogen Steels (HNS) Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global High Nitrogen Steels (HNS) Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global High Nitrogen Steels (HNS) Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. High Nitrogen Steels (HNS) Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. High Nitrogen Steels (HNS) Sales Market Share by Country/Region (2025)
- Figure 10. High Nitrogen Steels (HNS) Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of N $\geq$ 0.6%
- Figure 12. Product Picture of N $\geq$ 0.6%
- Figure 13. Global High Nitrogen Steels (HNS) Sales Market Share by Type in 2026
- Figure 14. Global High Nitrogen Steels (HNS) Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Cr-Mn-N System
- Figure 16. Product Picture of Cr-Ni-Mo-N System
- Figure 17. Product Picture of Other
- Figure 18. Global High Nitrogen Steels (HNS) Sales Market Share by Alloy System in 2026
- Figure 19. Global High Nitrogen Steels (HNS) Revenue Market Share by Alloy System (2021-2026)
- Figure 20. Product Picture of Pressurized Induction Melting
- Figure 21. Product Picture of Pressurized Electroslag Remelting
- Figure 22. Product Picture of Other
- Figure 23. Global High Nitrogen Steels (HNS) Sales Market Share by Manufacturing Route in 2026
- Figure 24. Global High Nitrogen Steels (HNS) Revenue Market Share by Manufacturing Route (2021-2026)
- Figure 25. High Nitrogen Steels (HNS) Consumed in Transportation
- Figure 26. Global High Nitrogen Steels (HNS) Market: Transportation (2021-2026) & (Tons)

Figure 27. High Nitrogen Steels (HNS) Consumed in Medical Devices

Figure 28. Global High Nitrogen Steels (HNS) Market: Medical Devices (2021-2026) & (Tons)

Figure 29. High Nitrogen Steels (HNS) Consumed in Military & Aerospace

Figure 30. Global High Nitrogen Steels (HNS) Market: Military & Aerospace (2021-2026) & (Tons)

Figure 31. High Nitrogen Steels (HNS) Consumed in Other

Figure 32. Global High Nitrogen Steels (HNS) Market: Other (2021-2026) & (Tons)

Figure 33. Global High Nitrogen Steels (HNS) Sale Market Share by Application (2025)

Figure 34. Global High Nitrogen Steels (HNS) Revenue Market Share by Application in 2026

Figure 35. High Nitrogen Steels (HNS) Sales by Company in 2026 (Tons)

Figure 36. Global High Nitrogen Steels (HNS) Sales Market Share by Company in 2026

Figure 37. High Nitrogen Steels (HNS) Revenue by Company in 2026 (\$ millions)

Figure 38. Global High Nitrogen Steels (HNS) Revenue Market Share by Company in 2026

Figure 39. Global High Nitrogen Steels (HNS) Sales Market Share by Geographic Region (2021-2026)

Figure 40. Global High Nitrogen Steels (HNS) Revenue Market Share by Geographic Region in 2026

Figure 41. Americas High Nitrogen Steels (HNS) Sales 2021-2026 (Tons)

Figure 42. Americas High Nitrogen Steels (HNS) Revenue 2021-2026 (\$ millions)

Figure 43. APAC High Nitrogen Steels (HNS) Sales 2021-2026 (Tons)

Figure 44. APAC High Nitrogen Steels (HNS) Revenue 2021-2026 (\$ millions)

Figure 45. Europe High Nitrogen Steels (HNS) Sales 2021-2026 (Tons)

Figure 46. Europe High Nitrogen Steels (HNS) Revenue 2021-2026 (\$ millions)

Figure 47. Middle East & Africa High Nitrogen Steels (HNS) Sales 2021-2026 (Tons)

Figure 48. Middle East & Africa High Nitrogen Steels (HNS) Revenue 2021-2026 (\$ millions)

Figure 49. Americas High Nitrogen Steels (HNS) Sales Market Share by Country in 2026

Figure 50. Americas High Nitrogen Steels (HNS) Revenue Market Share by Country (2021-2026)

Figure 51. Americas High Nitrogen Steels (HNS) Sales Market Share by Type (2021-2026)

Figure 52. Americas High Nitrogen Steels (HNS) Sales Market Share by Application (2021-2026)

Figure 53. United States High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 54. Canada High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 55. Mexico High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 56. Brazil High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 57. APAC High Nitrogen Steels (HNS) Sales Market Share by Region in 2026

Figure 58. APAC High Nitrogen Steels (HNS) Revenue Market Share by Region (2021-2026)

Figure 59. APAC High Nitrogen Steels (HNS) Sales Market Share by Type (2021-2026)

Figure 60. APAC High Nitrogen Steels (HNS) Sales Market Share by Application (2021-2026)

Figure 61. China High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 62. Japan High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 63. South Korea High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 64. Southeast Asia High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 65. India High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 66. Australia High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 67. China Taiwan High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 68. Europe High Nitrogen Steels (HNS) Sales Market Share by Country in 2026

Figure 69. Europe High Nitrogen Steels (HNS) Revenue Market Share by Country (2021-2026)

Figure 70. Europe High Nitrogen Steels (HNS) Sales Market Share by Type (2021-2026)

Figure 71. Europe High Nitrogen Steels (HNS) Sales Market Share by Application (2021-2026)

Figure 72. Germany High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 73. France High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 74. UK High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 75. Italy High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 76. Russia High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 77. Middle East & Africa High Nitrogen Steels (HNS) Sales Market Share by Country (2021-2026)

Figure 78. Middle East & Africa High Nitrogen Steels (HNS) Sales Market Share by Type (2021-2026)

Figure 79. Middle East & Africa High Nitrogen Steels (HNS) Sales Market Share by Application (2021-2026)

Figure 80. Egypt High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 81. South Africa High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 82. Israel High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 83. Turkey High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 84. GCC Countries High Nitrogen Steels (HNS) Revenue Growth 2021-2026 (\$ millions)

Figure 85. Manufacturing Cost Structure Analysis of High Nitrogen Steels (HNS) in 2026

Figure 86. Manufacturing Process Analysis of High Nitrogen Steels (HNS)

Figure 87. Industry Chain Structure of High Nitrogen Steels (HNS)

Figure 88. Channels of Distribution

Figure 89. Global High Nitrogen Steels (HNS) Sales Market Forecast by Region (2027-2032)

Figure 90. Global High Nitrogen Steels (HNS) Revenue Market Share Forecast by Region (2027-2032)

Figure 91. Global High Nitrogen Steels (HNS) Sales Market Share Forecast by Type (2027-2032)

Figure 92. Global High Nitrogen Steels (HNS) Revenue Market Share Forecast by Type (2027-2032)

Figure 93. Global High Nitrogen Steels (HNS) Sales Market Share Forecast by Application (2027-2032)

Figure 94. Global High Nitrogen Steels (HNS) Revenue Market Share Forecast by Application (2027-2032)

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