

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets 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 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets market size was valued at US\$ 161 million in 2025 and is forecast to a readjusted size of US\$ 331 million by 2032 with a CAGR of 11.3% during review period.

In 2025, the global sales volume of high-scandium ScAlN sputtering targets is approximately 35,600 kg, with an average price of around \$4,400 per kilogram.

High-scandium ScAlN sputtering targets are advanced semiconductor materials used in PVD processes to deposit $\text{Sc}_x\text{Al}_{1-x}\text{N}$ thin films. Typically containing 10-40 at.% scandium, these materials enhance piezoelectric coefficients, dielectric constants, and polarization intensity, thereby serving applications such as high-frequency RF MEMS filters, MEMS resonators, GaN HEMT barrier layers, and CMOS-compatible ferroelectric/piezoelectric devices. The material class is currently transitioning from R&D validation to small-batch mass production; market revenue is primarily derived from high-end targets, custom alloy targets, and associated thin-film process development. The upstream sector encompasses high-purity scandium and aluminum sources, powder metallurgy, and target bonding/processing, while the downstream sector covers the manufacturing of RF front-end modules, MEMS, GaN devices, and novel ferroelectric devices.

This report is a detailed and comprehensive analysis for global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets 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 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 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 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

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 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets 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 JX

Advanced Metals, Materion, Tosoh SMD, Mitsui Mining & Smelting, ULVAC, Plansee Group, Vital Thin Film Materials, Kurt J. Lesker, American Elements, Stanford Advanced Materials, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets 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

Alloy Sputtering Target

Reactive PVD Target Set

Custom Bonded Target

Market segment by Sc Content

Sc Content 10-20 at.%

Sc Content 20-30 at.%

Sc Content 30-40 at.%

Market segment by Technology

RF Piezoelectric Thin-Film Grade

Ferroelectric Nitride Grade

GaN HEMT Barrier Grade

Market segment by Application

RF Filters

MEMS Resonators

GaN HEMTs

Silicon Photonics Modulators

Major players covered

JX Advanced Metals

Materion

Tosoh SMD

Mitsui Mining & Smelting

ULVAC

Plansee Group

Vital Thin Film Materials

Kurt J. Lesker

American Elements

Stanford Advanced Materials

Testbourne

ALB Materials

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 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets, with price, sales quantity, revenue, and global market share of High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets from 2021 to 2026.

Chapter 3, the High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets 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 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets 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 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets.

Chapter 14 and 15, to describe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Alloy Sputtering Target

1.3.3 Reactive PVD Target Set

1.3.4 Custom Bonded Target

1.4 Market Analysis by Sc Content

1.4.1 Overview: Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Sc Content: 2021 Versus 2025 Versus 2032

1.4.2 Sc Content 10-20 at.%

1.4.3 Sc Content 20-30 at.%

1.4.4 Sc Content 30-40 at.%

1.5 Market Analysis by Technology

1.5.1 Overview: Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Technology: 2021 Versus 2025 Versus 2032

1.5.2 RF Piezoelectric Thin-Film Grade

1.5.3 Ferroelectric Nitride Grade

1.5.4 GaN HEMT Barrier Grade

1.6 Market Analysis by Application

1.6.1 Overview: Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 RF Filters

1.6.3 MEMS Resonators

1.6.4 GaN HEMTs

1.6.5 Silicon Photonics Modulators

1.7 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market Size & Forecast

1.7.1 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021 & 2025 & 2032)

1.7.2 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity (2021-2032)

1.7.3 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 JX Advanced Metals

2.1.1 JX Advanced Metals Details

2.1.2 JX Advanced Metals Major Business

2.1.3 JX Advanced Metals High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

2.1.4 JX Advanced Metals High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 JX Advanced Metals Recent Developments/Updates

2.2 Materion

2.2.1 Materion Details

2.2.2 Materion Major Business

2.2.3 Materion High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

2.2.4 Materion High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Materion Recent Developments/Updates

2.3 Tosoh SMD

2.3.1 Tosoh SMD Details

2.3.2 Tosoh SMD Major Business

2.3.3 Tosoh SMD High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

2.3.4 Tosoh SMD High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Tosoh SMD Recent Developments/Updates

2.4 Mitsui Mining & Smelting

2.4.1 Mitsui Mining & Smelting Details

2.4.2 Mitsui Mining & Smelting Major Business

2.4.3 Mitsui Mining & Smelting High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

2.4.4 Mitsui Mining & Smelting High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Mitsui Mining & Smelting Recent Developments/Updates

2.5 ULVAC

2.5.1 ULVAC Details

2.5.2 ULVAC Major Business

2.5.3 ULVAC High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

2.5.4 ULVAC High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 ULVAC Recent Developments/Updates

2.6 Plansee Group

2.6.1 Plansee Group Details

2.6.2 Plansee Group Major Business

2.6.3 Plansee Group High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

2.6.4 Plansee Group High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Plansee Group Recent Developments/Updates

2.7 Vital Thin Film Materials

2.7.1 Vital Thin Film Materials Details

2.7.2 Vital Thin Film Materials Major Business

2.7.3 Vital Thin Film Materials High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

2.7.4 Vital Thin Film Materials High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Vital Thin Film Materials Recent Developments/Updates

2.8 Kurt J. Lesker

2.8.1 Kurt J. Lesker Details

2.8.2 Kurt J. Lesker Major Business

2.8.3 Kurt J. Lesker High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

2.8.4 Kurt J. Lesker High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Kurt J. Lesker Recent Developments/Updates

2.9 American Elements

2.9.1 American Elements Details

2.9.2 American Elements Major Business

2.9.3 American Elements High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

2.9.4 American Elements High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 American Elements Recent Developments/Updates

2.10 Stanford Advanced Materials

2.10.1 Stanford Advanced Materials Details

2.10.2 Stanford Advanced Materials Major Business

2.10.3 Stanford Advanced Materials High-Scandium Aluminum Nitride (ScAlN)

Sputtering Targets Product and Services

2.10.4 Stanford Advanced Materials High-Scandium Aluminum Nitride (ScAlN)

Sputtering Targets Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Stanford Advanced Materials Recent Developments/Updates

2.11 Testbourne

2.11.1 Testbourne Details

2.11.2 Testbourne Major Business

2.11.3 Testbourne High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Product and Services

2.11.4 Testbourne High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Testbourne Recent Developments/Updates

2.12 ALB Materials

2.12.1 ALB Materials Details

2.12.2 ALB Materials Major Business

2.12.3 ALB Materials High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Product and Services

2.12.4 ALB Materials High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 ALB Materials Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: HIGH-SCANDIUM ALUMINUM NITRIDE (SCALN) SPUTTERING TARGETS BY MANUFACTURER

3.1 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Manufacturer (2021-2026)

3.2 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Revenue by Manufacturer (2021-2026)

3.3 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Manufacturer Market Share in 2025

3.4.3 Top 6 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Manufacturer Market Share in 2025

3.5 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market: Overall

Company Footprint Analysis

3.5.1 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market: Region Footprint

3.5.2 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market: Company Product Type Footprint

3.5.3 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market Size by Region

4.1.1 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Region (2021-2032)

4.1.2 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Region (2021-2032)

4.1.3 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Average Price by Region (2021-2032)

4.2 North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032)

4.3 Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032)

4.4 Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032)

4.5 South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032)

4.6 Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Type (2021-2032)

5.2 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Type (2021-2032)

5.3 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Application (2021-2032)

6.2 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Application (2021-2032)

6.3 Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Type (2021-2032)

7.2 North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Application (2021-2032)

7.3 North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market Size by Country

7.3.1 North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Country (2021-2032)

7.3.2 North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Type (2021-2032)

8.2 Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Application (2021-2032)

8.3 Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market Size by Country

8.3.1 Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales

Quantity by Country (2021-2032)

8.3.2 Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales

Quantity by Type (2021-2032)

9.2 Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales

Quantity by Application (2021-2032)

9.3 Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market Size by Region

9.3.1 Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Type (2021-2032)

10.2 South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Application (2021-2032)

10.3 South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market Size by Country

10.3.1 South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Country (2021-2032)

10.3.2 South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market Size by Country

11.3.1 Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market Drivers

12.2 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market Restraints

12.3 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets and Key Manufacturers

13.2 Manufacturing Costs Percentage of High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

- 13.3 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Typical Distributors
- 14.3 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Sc Content, (USD Million), 2021 & 2025 & 2032

Table 3. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 4. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. JX Advanced Metals Basic Information, Manufacturing Base and Competitors

Table 6. JX Advanced Metals Major Business

Table 7. JX Advanced Metals High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

Table 8. JX Advanced Metals High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. JX Advanced Metals Recent Developments/Updates

Table 10. Materion Basic Information, Manufacturing Base and Competitors

Table 11. Materion Major Business

Table 12. Materion High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

Table 13. Materion High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Materion Recent Developments/Updates

Table 15. Tosoh SMD Basic Information, Manufacturing Base and Competitors

Table 16. Tosoh SMD Major Business

Table 17. Tosoh SMD High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

Table 18. Tosoh SMD High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Tosoh SMD Recent Developments/Updates

Table 20. Mitsui Mining & Smelting Basic Information, Manufacturing Base and Competitors

Table 21. Mitsui Mining & Smelting Major Business

Table 22. Mitsui Mining & Smelting High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

Table 23. Mitsui Mining & Smelting High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Mitsui Mining & Smelting Recent Developments/Updates

Table 25. ULVAC Basic Information, Manufacturing Base and Competitors

Table 26. ULVAC Major Business

Table 27. ULVAC High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

Table 28. ULVAC High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. ULVAC Recent Developments/Updates

Table 30. Plansee Group Basic Information, Manufacturing Base and Competitors

Table 31. Plansee Group Major Business

Table 32. Plansee Group High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

Table 33. Plansee Group High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Plansee Group Recent Developments/Updates

Table 35. Vital Thin Film Materials Basic Information, Manufacturing Base and Competitors

Table 36. Vital Thin Film Materials Major Business

Table 37. Vital Thin Film Materials High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

Table 38. Vital Thin Film Materials High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Vital Thin Film Materials Recent Developments/Updates

Table 40. Kurt J. Lesker Basic Information, Manufacturing Base and Competitors

Table 41. Kurt J. Lesker Major Business

Table 42. Kurt J. Lesker High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services

Table 43. Kurt J. Lesker High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Kurt J. Lesker Recent Developments/Updates

Table 45. American Elements Basic Information, Manufacturing Base and Competitors
Table 46. American Elements Major Business
Table 47. American Elements High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services
Table 48. American Elements High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 49. American Elements Recent Developments/Updates
Table 50. Stanford Advanced Materials Basic Information, Manufacturing Base and Competitors
Table 51. Stanford Advanced Materials Major Business
Table 52. Stanford Advanced Materials High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services
Table 53. Stanford Advanced Materials High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 54. Stanford Advanced Materials Recent Developments/Updates
Table 55. Testbourne Basic Information, Manufacturing Base and Competitors
Table 56. Testbourne Major Business
Table 57. Testbourne High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services
Table 58. Testbourne High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 59. Testbourne Recent Developments/Updates
Table 60. ALB Materials Basic Information, Manufacturing Base and Competitors
Table 61. ALB Materials Major Business
Table 62. ALB Materials High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Product and Services
Table 63. ALB Materials High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 64. ALB Materials Recent Developments/Updates
Table 65. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Manufacturer (2021-2026) & (kg)
Table 66. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Revenue by Manufacturer (2021-2026) & (USD Million)
Table 67. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 68. Market Position of Manufacturers in High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 69. Head Office and High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Production Site of Key Manufacturer

Table 70. High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market: Company Product Type Footprint

Table 71. High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market: Company Product Application Footprint

Table 72. High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets New Market Entrants and Barriers to Market Entry

Table 73. High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Mergers, Acquisition, Agreements, and Collaborations

Table 74. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 75. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Region (2021-2026) & (kg)

Table 76. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Region (2027-2032) & (kg)

Table 77. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Region (2027-2032) & (USD Million)

Table 79. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Average Price by Region (2021-2026) & (US\$/kg)

Table 80. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Average Price by Region (2027-2032) & (US\$/kg)

Table 81. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Type (2021-2026) & (kg)

Table 82. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Type (2027-2032) & (kg)

Table 83. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Average Price by Type (2021-2026) & (US\$/kg)

Table 86. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Average Price by Type (2027-2032) & (US\$/kg)

Table 87. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales

Quantity by Application (2021-2026) & (kg)

Table 88. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales

Quantity by Application (2027-2032) & (kg)

Table 89. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Average

Price by Application (2021-2026) & (US\$/kg)

Table 92. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Average

Price by Application (2027-2032) & (US\$/kg)

Table 93. North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Sales Quantity by Type (2021-2026) & (kg)

Table 94. North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Sales Quantity by Type (2027-2032) & (kg)

Table 95. North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Sales Quantity by Application (2021-2026) & (kg)

Table 96. North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Sales Quantity by Application (2027-2032) & (kg)

Table 97. North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Sales Quantity by Country (2021-2026) & (kg)

Table 98. North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Sales Quantity by Country (2027-2032) & (kg)

Table 99. North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Consumption Value by Country (2021-2026) & (USD Million)

Table 100. North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Consumption Value by Country (2027-2032) & (USD Million)

Table 101. Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales

Quantity by Type (2021-2026) & (kg)

Table 102. Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales

Quantity by Type (2027-2032) & (kg)

Table 103. Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales

Quantity by Application (2021-2026) & (kg)

Table 104. Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales

Quantity by Application (2027-2032) & (kg)

Table 105. Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales

Quantity by Country (2021-2026) & (kg)

Table 106. Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales

Quantity by Country (2027-2032) & (kg)

Table 107. Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Type (2021-2026) & (kg)

Table 110. Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Type (2027-2032) & (kg)

Table 111. Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Application (2021-2026) & (kg)

Table 112. Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Application (2027-2032) & (kg)

Table 113. Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Region (2021-2026) & (kg)

Table 114. Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Region (2027-2032) & (kg)

Table 115. Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Type (2021-2026) & (kg)

Table 118. South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Type (2027-2032) & (kg)

Table 119. South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Application (2021-2026) & (kg)

Table 120. South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Application (2027-2032) & (kg)

Table 121. South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Country (2021-2026) & (kg)

Table 122. South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Country (2027-2032) & (kg)

Table 123. South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Country (2021-2026) & (USD Million)

Table 124. South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Type (2021-2026) & (kg)

Table 126. Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering

Targets Sales Quantity by Type (2027-2032) & (kg)

Table 127. Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Application (2021-2026) & (kg)

Table 128. Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Application (2027-2032) & (kg)

Table 129. Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Country (2021-2026) & (kg)

Table 130. Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity by Country (2027-2032) & (kg)

Table 131. Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Country (2021-2026) & (USD Million)

Table 132. Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Country (2027-2032) & (USD Million)

Table 133. High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Raw Material

Table 134. Key Manufacturers of High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Raw Materials

Table 135. High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Typical Distributors

Table 136. High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Picture
- Figure 2. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Revenue Market Share by Type in 2025
- Figure 4. Alloy Sputtering Target Examples
- Figure 5. Reactive PVD Target Set Examples
- Figure 6. Custom Bonded Target Examples
- Figure 7. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Revenue by Sc Content, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Revenue Market Share by Sc Content in 2025
- Figure 9. Sc Content 10-20 at.% Examples
- Figure 10. Sc Content 20-30 at.% Examples
- Figure 11. Sc Content 30-40 at.% Examples
- Figure 12. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Revenue by Technology, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Revenue Market Share by Technology in 2025
- Figure 14. RF Piezoelectric Thin-Film Grade Examples
- Figure 15. Ferroelectric Nitride Grade Examples
- Figure 16. GaN HEMT Barrier Grade Examples
- Figure 17. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 18. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Revenue Market Share by Application in 2025
- Figure 19. RF Filters Examples
- Figure 20. MEMS Resonators Examples
- Figure 21. GaN HEMTs Examples
- Figure 22. Silicon Photonics Modulators Examples
- Figure 23. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 24. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 25. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales

Quantity (2021-2032) & (kg)

Figure 26. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Price (2021-2032) & (US\$/kg)

Figure 27. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity Market Share by Manufacturer in 2025

Figure 28. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Revenue Market Share by Manufacturer in 2025

Figure 29. Producer Shipments of High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 30. Top 3 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Manufacturer (Revenue) Market Share in 2025

Figure 31. Top 6 High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Manufacturer (Revenue) Market Share in 2025

Figure 32. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity Market Share by Region (2021-2032)

Figure 33. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value Market Share by Region (2021-2032)

Figure 34. North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032) & (USD Million)

Figure 35. Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032) & (USD Million)

Figure 36. Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032) & (USD Million)

Figure 37. South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032) & (USD Million)

Figure 38. Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032) & (USD Million)

Figure 39. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity Market Share by Type (2021-2032)

Figure 40. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value Market Share by Type (2021-2032)

Figure 41. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Average Price by Type (2021-2032) & (US\$/kg)

Figure 42. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity Market Share by Application (2021-2032)

Figure 43. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Revenue Market Share by Application (2021-2032)

Figure 44. Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Average Price by Application (2021-2032) & (US\$/kg)

Figure 45. North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity Market Share by Type (2021-2032)

Figure 46. North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity Market Share by Application (2021-2032)

Figure 47. North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity Market Share by Country (2021-2032)

Figure 48. North America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value Market Share by Country (2021-2032)

Figure 49. United States High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032) & (USD Million)

Figure 50. Canada High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032) & (USD Million)

Figure 51. Mexico High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032) & (USD Million)

Figure 52. Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity Market Share by Type (2021-2032)

Figure 53. Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity Market Share by Application (2021-2032)

Figure 54. Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity Market Share by Country (2021-2032)

Figure 55. Europe High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value Market Share by Country (2021-2032)

Figure 56. Germany High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032) & (USD Million)

Figure 57. France High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032) & (USD Million)

Figure 58. United Kingdom High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032) & (USD Million)

Figure 59. Russia High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032) & (USD Million)

Figure 60. Italy High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032) & (USD Million)

Figure 61. Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity Market Share by Type (2021-2032)

Figure 62. Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity Market Share by Application (2021-2032)

Figure 63. Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Sales Quantity Market Share by Region (2021-2032)

Figure 64. Asia-Pacific High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Consumption Value Market Share by Region (2021-2032)

Figure 65. China High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets
Consumption Value (2021-2032) & (USD Million)

Figure 66. Japan High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets
Consumption Value (2021-2032) & (USD Million)

Figure 67. South Korea High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets
Consumption Value (2021-2032) & (USD Million)

Figure 68. India High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets
Consumption Value (2021-2032) & (USD Million)

Figure 69. Southeast Asia High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets
Consumption Value (2021-2032) & (USD Million)

Figure 70. Australia High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets
Consumption Value (2021-2032) & (USD Million)

Figure 71. South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets
Sales Quantity Market Share by Type (2021-2032)

Figure 72. South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets
Sales Quantity Market Share by Application (2021-2032)

Figure 73. South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets
Sales Quantity Market Share by Country (2021-2032)

Figure 74. South America High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets
Consumption Value Market Share by Country (2021-2032)

Figure 75. Brazil High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets
Consumption Value (2021-2032) & (USD Million)

Figure 76. Argentina High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets
Consumption Value (2021-2032) & (USD Million)

Figure 77. Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering
Targets Sales Quantity Market Share by Type (2021-2032)

Figure 78. Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering
Targets Sales Quantity Market Share by Application (2021-2032)

Figure 79. Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering
Targets Sales Quantity Market Share by Country (2021-2032)

Figure 80. Middle East & Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering
Targets Consumption Value Market Share by Country (2021-2032)

Figure 81. Turkey High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets
Consumption Value (2021-2032) & (USD Million)

Figure 82. Egypt High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets
Consumption Value (2021-2032) & (USD Million)

Figure 83. Saudi Arabia High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets
Consumption Value (2021-2032) & (USD Million)

Figure 84. South Africa High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Consumption Value (2021-2032) & (USD Million)

Figure 85. High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market Drivers

Figure 86. High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market Restraints

Figure 87. High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market Trends

Figure 88. Porters Five Forces Analysis

Figure 89. Manufacturing Cost Structure Analysis of High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets in 2025

Figure 90. Manufacturing Process Analysis of High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets

Figure 91. High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Industrial Chain

Figure 92. Sales Channel: Direct to End-User vs Distributors

Figure 93. Direct Channel Pros & Cons

Figure 94. Indirect Channel Pros & Cons

Figure 95. Methodology

Figure 96. Research Process and Data Source

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