

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets market size is expected to reach \$ 331 million by 2032, rising at a market growth of 11.3% CAGR during the forecast period (2026-2032).

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 studies the global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets and provides market size (US\$

million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets total production and demand, 2021-2032, (kg)

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets total production value, 2021-2032, (USD Million)

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets domestic production, consumption, key domestic manufacturers and share

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market, Segmentation by Type:

Alloy Sputtering Target

Reactive PVD Target Set

Custom Bonded Target

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market,

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Supply, Demand and Key Producers, 2026-2032

Segmentation by Sc Content:

Sc Content 10-20 at. %

Sc Content 20-30 at. %

Sc Content 30-40 at. %

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market, Segmentation by Technology:

RF Piezoelectric Thin-Film Grade

Ferroelectric Nitride Grade

GaN HEMT Barrier Grade

Global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets Market, Segmentation by Application:

RF Filters

MEMS Resonators

GaN HEMTs

Silicon Photonics Modulators

Companies Profiled:

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

Key Questions Answered:

1. How big is the global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets market?
2. What is the demand of the global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets market?
3. What is the year over year growth of the global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets market?
4. What is the production and production value of the global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets market?
5. Who are the key producers in the global High-Scandium Aluminum Nitride (ScAlN) Sputtering Targets market?
6. What are the growth factors driving the market demand?

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