

Global Black LiNbO₃ and Black LiTaO₃ Wafers Market Growth 2026-2032

<https://marketpublishers.com/r/G5DE859E689CEN.html>

Date: June 2026

Pages: 86

Price: US\$ 3,660.00 (Single User License)

ID: G5DE859E689CEN

Abstracts

The global Black LiNbO₃ and Black LiTaO₃ Wafers market size is predicted to grow from US\$ 169 million in 2025 to US\$ 415 million in 2032; it is expected to grow at a CAGR of 14.0% from 2026 to 2032.

Free hot black LiTaO₃ wafers were prepared by chemical reduction method in a mixed atmosphere of CO₂ and H₂. The pyroelectric effect of the black LiTaO₃ wafer was basically eliminated, and the transmittance was significantly reduced. The reduction process did not change the Curie temperature and piezoelectric properties of the LT wafer, and the charge could be neutralized even when a potential occurred instantaneously. Lithium tantalate (LiTaO₃) prepared using reduction technology has a high ability to neutralize charges even when a potential occurs instantaneously. The piezoelectric performance of black lithium tantalate chips is not significantly different from that of standard chips. Therefore, black reduced lithium tantalate chips are widely used in the production of high-frequency SAW devices.

United States market for Black LiNbO₃ and Black LiTaO₃ Wafers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Black LiNbO₃ and Black LiTaO₃ Wafers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Black LiNbO₃ and Black LiTaO₃ Wafers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Black LiNbO₃ and Black LiTaO₃ Wafers players cover YAMAJU CERAMICS, Nano Quarz Wafer, Alfa Chemistry, HangZhou FreqControl Electronic, TDG Holding, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Black LiNbO₃ and Black LiTaO₃ Wafers Industry Forecast" looks at past sales and reviews total world Black LiNbO₃ and Black LiTaO₃ Wafers sales in 2025, providing a comprehensive analysis by region and market sector of projected Black LiNbO₃ and Black LiTaO₃ Wafers sales for 2026 through 2032. With Black LiNbO₃ and Black LiTaO₃ Wafers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Black LiNbO₃ and Black LiTaO₃ Wafers industry.

This Insight Report provides a comprehensive analysis of the global Black LiNbO₃ and Black LiTaO₃ Wafers 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 Black LiNbO₃ and Black LiTaO₃ Wafers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Black LiNbO₃ and Black LiTaO₃ Wafers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Black LiNbO₃ and Black LiTaO₃ Wafers 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 Black LiNbO₃ and Black LiTaO₃ Wafers.

This report presents a comprehensive overview, market shares, and growth opportunities of Black LiNbO₃ and Black LiTaO₃ Wafers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Black Lithium Niobate Wafers

Black Lithium Tantalate Wafers

Segmentation by Application:

High Frequency SAW Devices

Electro-Optical

Others

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.

YAMAJU CERAMICS

Nano Quarz Wafer

Alfa Chemistry

HangZhou FreqControl Electronic

TDG Holding

PAM Xiamen

OST Photonics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Black LiNbO₃ and Black LiTaO₃ Wafers market?

What factors are driving Black LiNbO₃ and Black LiTaO₃ Wafers market growth, globally and by region?

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

How do Black LiNbO₃ and Black LiTaO₃ Wafers market opportunities vary by end market size?

How does Black LiNbO₃ and Black LiTaO₃ Wafers 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 Black LiNbO₃ and Black LiTaO₃ Wafers Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Black LiNbO₃ and Black LiTaO₃ Wafers by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Black LiNbO₃ and Black LiTaO₃ Wafers by Country/Region, 2021, 2025 & 2032

2.2 Black LiNbO₃ and Black LiTaO₃ Wafers Segment by Type

- 2.2.1 Black Lithium Niobate Wafers
- 2.2.2 Black Lithium Tantalate Wafers
- 2.2.3 Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Type
 - 2.2.3.1 Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Black LiNbO₃ and Black LiTaO₃ Wafers Sale Price by Type (2021-2026)

2.3 Black LiNbO₃ and Black LiTaO₃ Wafers Segment by Application

- 2.3.1 High Frequency SAW Devices
- 2.3.2 Electro-Optical
- 2.3.3 Others
- 2.3.4 Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Application
 - 2.3.4.1 Global Black LiNbO₃ and Black LiTaO₃ Wafers Sale Market Share by Application (2021-2026)
 - 2.3.4.2 Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue and Market Share

by Application (2021-2026)

2.3.4.3 Global Black LiNbO₃ and Black LiTaO₃ Wafers Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Black LiNbO₃ and Black LiTaO₃ Wafers Breakdown Data by Company

3.1.1 Global Black LiNbO₃ and Black LiTaO₃ Wafers Annual Sales by Company (2021-2026)

3.1.2 Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Company (2021-2026)

3.2 Global Black LiNbO₃ and Black LiTaO₃ Wafers Annual Revenue by Company (2021-2026)

3.2.1 Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue by Company (2021-2026)

3.2.2 Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share by Company (2021-2026)

3.3 Global Black LiNbO₃ and Black LiTaO₃ Wafers Sale Price by Company

3.4 Key Manufacturers Black LiNbO₃ and Black LiTaO₃ Wafers Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Black LiNbO₃ and Black LiTaO₃ Wafers Product Location Distribution

3.4.2 Players Black LiNbO₃ and Black LiTaO₃ Wafers 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 BLACK LINBO3 AND BLACK LITAO3 WAFERS BY GEOGRAPHIC REGION

4.1 World Historic Black LiNbO₃ and Black LiTaO₃ Wafers Market Size by Geographic Region (2021-2026)

4.1.1 Global Black LiNbO₃ and Black LiTaO₃ Wafers Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Black LiNbO₃ and Black LiTaO₃ Wafers Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Black LiNbO₃ and Black LiTaO₃ Wafers Market Size by

Country/Region (2021-2026)

4.2.1 Global Black LiNbO₃ and Black LiTaO₃ Wafers Annual Sales by Country/Region (2021-2026)

4.2.2 Global Black LiNbO₃ and Black LiTaO₃ Wafers Annual Revenue by Country/Region (2021-2026)

4.3 Americas Black LiNbO₃ and Black LiTaO₃ Wafers Sales Growth

4.4 APAC Black LiNbO₃ and Black LiTaO₃ Wafers Sales Growth

4.5 Europe Black LiNbO₃ and Black LiTaO₃ Wafers Sales Growth

4.6 Middle East & Africa Black LiNbO₃ and Black LiTaO₃ Wafers Sales Growth

5 AMERICAS

5.1 Americas Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Country

5.1.1 Americas Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Country (2021-2026)

5.1.2 Americas Black LiNbO₃ and Black LiTaO₃ Wafers Revenue by Country (2021-2026)

5.2 Americas Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Type (2021-2026)

5.3 Americas Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Region

6.1.1 APAC Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Region (2021-2026)

6.1.2 APAC Black LiNbO₃ and Black LiTaO₃ Wafers Revenue by Region (2021-2026)

6.2 APAC Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Type (2021-2026)

6.3 APAC Black LiNbO₃ and Black LiTaO₃ Wafers 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 Black LiNbO₃ and Black LiTaO₃ Wafers by Country

7.1.1 Europe Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Country (2021-2026)

7.1.2 Europe Black LiNbO₃ and Black LiTaO₃ Wafers Revenue by Country (2021-2026)

7.2 Europe Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Type (2021-2026)

7.3 Europe Black LiNbO₃ and Black LiTaO₃ Wafers 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 Black LiNbO₃ and Black LiTaO₃ Wafers by Country

8.1.1 Middle East & Africa Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Country (2021-2026)

8.1.2 Middle East & Africa Black LiNbO₃ and Black LiTaO₃ Wafers Revenue by Country (2021-2026)

8.2 Middle East & Africa Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Type (2021-2026)

8.3 Middle East & Africa Black LiNbO₃ and Black LiTaO₃ Wafers 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 Black LiNbO₃ and Black LiTaO₃ Wafers
- 10.3 Manufacturing Process Analysis of Black LiNbO₃ and Black LiTaO₃ Wafers
- 10.4 Industry Chain Structure of Black LiNbO₃ and Black LiTaO₃ Wafers

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Black LiNbO₃ and Black LiTaO₃ Wafers Distributors
- 11.3 Black LiNbO₃ and Black LiTaO₃ Wafers Customer

12 WORLD FORECAST REVIEW FOR BLACK LINBO3 AND BLACK LITAO3 WAFERS BY GEOGRAPHIC REGION

- 12.1 Global Black LiNbO₃ and Black LiTaO₃ Wafers Market Size Forecast by Region
 - 12.1.1 Global Black LiNbO₃ and Black LiTaO₃ Wafers Forecast by Region (2027-2032)
 - 12.1.2 Global Black LiNbO₃ and Black LiTaO₃ Wafers 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 Black LiNbO₃ and Black LiTaO₃ Wafers Forecast by Type (2027-2032)
- 12.7 Global Black LiNbO₃ and Black LiTaO₃ Wafers Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 YAMAJU CERAMICS
 - 13.1.1 YAMAJU CERAMICS Company Information
 - 13.1.2 YAMAJU CERAMICS Black LiNbO₃ and Black LiTaO₃ Wafers Product Portfolios and Specifications
 - 13.1.3 YAMAJU CERAMICS Black LiNbO₃ and Black LiTaO₃ Wafers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 YAMAJU CERAMICS Main Business Overview
 - 13.1.5 YAMAJU CERAMICS Latest Developments
- 13.2 Nano Quarz Wafer

- 13.2.1 Nano Quarz Wafer Company Information
- 13.2.2 Nano Quarz Wafer Black LiNbO₃ and Black LiTaO₃ Wafers Product Portfolios and Specifications
- 13.2.3 Nano Quarz Wafer Black LiNbO₃ and Black LiTaO₃ Wafers Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Nano Quarz Wafer Main Business Overview
- 13.2.5 Nano Quarz Wafer Latest Developments
- 13.3 Alfa Chemistry
 - 13.3.1 Alfa Chemistry Company Information
 - 13.3.2 Alfa Chemistry Black LiNbO₃ and Black LiTaO₃ Wafers Product Portfolios and Specifications
 - 13.3.3 Alfa Chemistry Black LiNbO₃ and Black LiTaO₃ Wafers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Alfa Chemistry Main Business Overview
 - 13.3.5 Alfa Chemistry Latest Developments
- 13.4 HangZhou FreqControl Electronic
 - 13.4.1 HangZhou FreqControl Electronic Company Information
 - 13.4.2 HangZhou FreqControl Electronic Black LiNbO₃ and Black LiTaO₃ Wafers Product Portfolios and Specifications
 - 13.4.3 HangZhou FreqControl Electronic Black LiNbO₃ and Black LiTaO₃ Wafers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 HangZhou FreqControl Electronic Main Business Overview
 - 13.4.5 HangZhou FreqControl Electronic Latest Developments
- 13.5 TDG Holding
 - 13.5.1 TDG Holding Company Information
 - 13.5.2 TDG Holding Black LiNbO₃ and Black LiTaO₃ Wafers Product Portfolios and Specifications
 - 13.5.3 TDG Holding Black LiNbO₃ and Black LiTaO₃ Wafers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 TDG Holding Main Business Overview
 - 13.5.5 TDG Holding Latest Developments
- 13.6 PAM Xiamen
 - 13.6.1 PAM Xiamen Company Information
 - 13.6.2 PAM Xiamen Black LiNbO₃ and Black LiTaO₃ Wafers Product Portfolios and Specifications
 - 13.6.3 PAM Xiamen Black LiNbO₃ and Black LiTaO₃ Wafers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 PAM Xiamen Main Business Overview
 - 13.6.5 PAM Xiamen Latest Developments

13.7 OST Photonics

13.7.1 OST Photonics Company Information

13.7.2 OST Photonics Black LiNbO₃ and Black LiTaO₃ Wafers Product Portfolios and Specifications

13.7.3 OST Photonics Black LiNbO₃ and Black LiTaO₃ Wafers Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 OST Photonics Main Business Overview

13.7.5 OST Photonics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Black LiNbO₃ and Black LiTaO₃ Wafers Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Black LiNbO₃ and Black LiTaO₃ Wafers Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Black Lithium Niobate Wafers

Table 4. Major Players of Black Lithium Tantalate Wafers

Table 5. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Type (2021-2026) & (Pcs)

Table 6. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Type (2021-2026)

Table 7. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share by Type (2021-2026)

Table 9. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sale Price by Type (2021-2026) & (US\$/Pcs)

Table 10. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sale by Application (2021-2026) & (Pcs)

Table 11. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sale Market Share by Application (2021-2026)

Table 12. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue by Application (2021-2026) & (\$ million)

Table 13. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share by Application (2021-2026)

Table 14. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sale Price by Application (2021-2026) & (US\$/Pcs)

Table 15. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Company (2021-2026) & (Pcs)

Table 16. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Company (2021-2026)

Table 17. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue by Company (2021-2026) & (\$ millions)

Table 18. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share by Company (2021-2026)

Table 19. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sale Price by Company

(2021-2026) & (US\$/Pcs)

Table 20. Key Manufacturers Black LiNbO₃ and Black LiTaO₃ Wafers Producing Area Distribution and Sales Area

Table 21. Players Black LiNbO₃ and Black LiTaO₃ Wafers Products Offered

Table 22. Black LiNbO₃ and Black LiTaO₃ Wafers Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Geographic Region (2021-2026) & (Pcs)

Table 26. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share Geographic Region (2021-2026)

Table 27. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 28. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share by Geographic Region (2021-2026)

Table 29. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Country/Region (2021-2026) & (Pcs)

Table 30. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Country/Region (2021-2026)

Table 31. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue by Country/Region (2021-2026) & (\$ millions)

Table 32. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share by Country/Region (2021-2026)

Table 33. Americas Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Country (2021-2026) & (Pcs)

Table 34. Americas Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Country (2021-2026)

Table 35. Americas Black LiNbO₃ and Black LiTaO₃ Wafers Revenue by Country (2021-2026) & (\$ millions)

Table 36. Americas Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Type (2021-2026) & (Pcs)

Table 37. Americas Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Application (2021-2026) & (Pcs)

Table 38. APAC Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Region (2021-2026) & (Pcs)

Table 39. APAC Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Region (2021-2026)

Table 40. APAC Black LiNbO₃ and Black LiTaO₃ Wafers Revenue by Region

(2021-2026) & (\$ millions)

Table 41. APAC Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Type (2021-2026) & (Pcs)

Table 42. APAC Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Application (2021-2026) & (Pcs)

Table 43. Europe Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Country (2021-2026) & (Pcs)

Table 44. Europe Black LiNbO₃ and Black LiTaO₃ Wafers Revenue by Country (2021-2026) & (\$ millions)

Table 45. Europe Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Type (2021-2026) & (Pcs)

Table 46. Europe Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Application (2021-2026) & (Pcs)

Table 47. Middle East & Africa Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Country (2021-2026) & (Pcs)

Table 48. Middle East & Africa Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share by Country (2021-2026)

Table 49. Middle East & Africa Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Type (2021-2026) & (Pcs)

Table 50. Middle East & Africa Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Application (2021-2026) & (Pcs)

Table 51. Key Market Drivers & Growth Opportunities of Black LiNbO₃ and Black LiTaO₃ Wafers

Table 52. Key Market Challenges & Risks of Black LiNbO₃ and Black LiTaO₃ Wafers

Table 53. Key Industry Trends of Black LiNbO₃ and Black LiTaO₃ Wafers

Table 54. Black LiNbO₃ and Black LiTaO₃ Wafers Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. Black LiNbO₃ and Black LiTaO₃ Wafers Distributors List

Table 57. Black LiNbO₃ and Black LiTaO₃ Wafers Customer List

Table 58. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales Forecast by Region (2027-2032) & (Pcs)

Table 59. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 60. Americas Black LiNbO₃ and Black LiTaO₃ Wafers Sales Forecast by Country (2027-2032) & (Pcs)

Table 61. Americas Black LiNbO₃ and Black LiTaO₃ Wafers Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 62. APAC Black LiNbO₃ and Black LiTaO₃ Wafers Sales Forecast by Region (2027-2032) & (Pcs)

Table 63. APAC Black LiNbO ₃ and Black LiTaO ₃ Wafers Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 64. Europe Black LiNbO ₃ and Black LiTaO ₃ Wafers Sales Forecast by Country (2027-2032) & (Pcs)
Table 65. Europe Black LiNbO ₃ and Black LiTaO ₃ Wafers Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 66. Middle East & Africa Black LiNbO ₃ and Black LiTaO ₃ Wafers Sales Forecast by Country (2027-2032) & (Pcs)
Table 67. Middle East & Africa Black LiNbO ₃ and Black LiTaO ₃ Wafers Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 68. Global Black LiNbO ₃ and Black LiTaO ₃ Wafers Sales Forecast by Type (2027-2032) & (Pcs)
Table 69. Global Black LiNbO ₃ and Black LiTaO ₃ Wafers Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 70. Global Black LiNbO ₃ and Black LiTaO ₃ Wafers Sales Forecast by Application (2027-2032) & (Pcs)
Table 71. Global Black LiNbO ₃ and Black LiTaO ₃ Wafers Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 72. YAMAJU CERAMICS Basic Information, Black LiNbO ₃ and Black LiTaO ₃ Wafers Manufacturing Base, Sales Area and Its Competitors
Table 73. YAMAJU CERAMICS Black LiNbO ₃ and Black LiTaO ₃ Wafers Product Portfolios and Specifications
Table 74. YAMAJU CERAMICS Black LiNbO ₃ and Black LiTaO ₃ Wafers Sales (Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)
Table 75. YAMAJU CERAMICS Main Business
Table 76. YAMAJU CERAMICS Latest Developments
Table 77. Nano Quarz Wafer Basic Information, Black LiNbO ₃ and Black LiTaO ₃ Wafers Manufacturing Base, Sales Area and Its Competitors
Table 78. Nano Quarz Wafer Black LiNbO ₃ and Black LiTaO ₃ Wafers Product Portfolios and Specifications
Table 79. Nano Quarz Wafer Black LiNbO ₃ and Black LiTaO ₃ Wafers Sales (Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)
Table 80. Nano Quarz Wafer Main Business
Table 81. Nano Quarz Wafer Latest Developments
Table 82. Alfa Chemistry Basic Information, Black LiNbO ₃ and Black LiTaO ₃ Wafers Manufacturing Base, Sales Area and Its Competitors
Table 83. Alfa Chemistry Black LiNbO ₃ and Black LiTaO ₃ Wafers Product Portfolios and Specifications
Table 84. Alfa Chemistry Black LiNbO ₃ and Black LiTaO ₃ Wafers Sales (Pcs), Revenue

(\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 85. Alfa Chemistry Main Business

Table 86. Alfa Chemistry Latest Developments

Table 87. HangZhou FreqControl Electronic Basic Information, Black LiNbO₃ and Black LiTaO₃ Wafers Manufacturing Base, Sales Area and Its Competitors

Table 88. HangZhou FreqControl Electronic Black LiNbO₃ and Black LiTaO₃ Wafers Product Portfolios and Specifications

Table 89. HangZhou FreqControl Electronic Black LiNbO₃ and Black LiTaO₃ Wafers Sales (Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 90. HangZhou FreqControl Electronic Main Business

Table 91. HangZhou FreqControl Electronic Latest Developments

Table 92. TDG Holding Basic Information, Black LiNbO₃ and Black LiTaO₃ Wafers Manufacturing Base, Sales Area and Its Competitors

Table 93. TDG Holding Black LiNbO₃ and Black LiTaO₃ Wafers Product Portfolios and Specifications

Table 94. TDG Holding Black LiNbO₃ and Black LiTaO₃ Wafers Sales (Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 95. TDG Holding Main Business

Table 96. TDG Holding Latest Developments

Table 97. PAM Xiamen Basic Information, Black LiNbO₃ and Black LiTaO₃ Wafers Manufacturing Base, Sales Area and Its Competitors

Table 98. PAM Xiamen Black LiNbO₃ and Black LiTaO₃ Wafers Product Portfolios and Specifications

Table 99. PAM Xiamen Black LiNbO₃ and Black LiTaO₃ Wafers Sales (Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 100. PAM Xiamen Main Business

Table 101. PAM Xiamen Latest Developments

Table 102. OST Photonics Basic Information, Black LiNbO₃ and Black LiTaO₃ Wafers Manufacturing Base, Sales Area and Its Competitors

Table 103. OST Photonics Black LiNbO₃ and Black LiTaO₃ Wafers Product Portfolios and Specifications

Table 104. OST Photonics Black LiNbO₃ and Black LiTaO₃ Wafers Sales (Pcs), Revenue (\$ Million), Price (US\$/Pcs) and Gross Margin (2021-2026)

Table 105. OST Photonics Main Business

Table 106. OST Photonics Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Black LiNbO₃ and Black LiTaO₃ Wafers
- Figure 2. Black LiNbO₃ and Black LiTaO₃ Wafers Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales Growth Rate 2021-2032 (Pcs)
- Figure 7. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Country/Region (2025)
- Figure 10. Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Black Lithium Niobate Wafers
- Figure 12. Product Picture of Black Lithium Tantalate Wafers
- Figure 13. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Type in 2026
- Figure 14. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share by Type (2021-2026)
- Figure 15. Black LiNbO₃ and Black LiTaO₃ Wafers Consumed in High Frequency SAW Devices
- Figure 16. Global Black LiNbO₃ and Black LiTaO₃ Wafers Market: High Frequency SAW Devices (2021-2026) & (Pcs)
- Figure 17. Black LiNbO₃ and Black LiTaO₃ Wafers Consumed in Electro-Optical
- Figure 18. Global Black LiNbO₃ and Black LiTaO₃ Wafers Market: Electro-Optical (2021-2026) & (Pcs)
- Figure 19. Black LiNbO₃ and Black LiTaO₃ Wafers Consumed in Others
- Figure 20. Global Black LiNbO₃ and Black LiTaO₃ Wafers Market: Others (2021-2026) & (Pcs)
- Figure 21. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sale Market Share by Application (2025)
- Figure 22. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share by Application in 2026

Figure 23. Black LiNbO₃ and Black LiTaO₃ Wafers Sales by Company in 2026 (Pcs)

Figure 24. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Company in 2026

Figure 25. Black LiNbO₃ and Black LiTaO₃ Wafers Revenue by Company in 2026 (\$ millions)

Figure 26. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share by Company in 2026

Figure 27. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Geographic Region (2021-2026)

Figure 28. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share by Geographic Region in 2026

Figure 29. Americas Black LiNbO₃ and Black LiTaO₃ Wafers Sales 2021-2026 (Pcs)

Figure 30. Americas Black LiNbO₃ and Black LiTaO₃ Wafers Revenue 2021-2026 (\$ millions)

Figure 31. APAC Black LiNbO₃ and Black LiTaO₃ Wafers Sales 2021-2026 (Pcs)

Figure 32. APAC Black LiNbO₃ and Black LiTaO₃ Wafers Revenue 2021-2026 (\$ millions)

Figure 33. Europe Black LiNbO₃ and Black LiTaO₃ Wafers Sales 2021-2026 (Pcs)

Figure 34. Europe Black LiNbO₃ and Black LiTaO₃ Wafers Revenue 2021-2026 (\$ millions)

Figure 35. Middle East & Africa Black LiNbO₃ and Black LiTaO₃ Wafers Sales 2021-2026 (Pcs)

Figure 36. Middle East & Africa Black LiNbO₃ and Black LiTaO₃ Wafers Revenue 2021-2026 (\$ millions)

Figure 37. Americas Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Country in 2026

Figure 38. Americas Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share by Country (2021-2026)

Figure 39. Americas Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Type (2021-2026)

Figure 40. Americas Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Application (2021-2026)

Figure 41. United States Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 42. Canada Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 43. Mexico Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 44. Brazil Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026

(\$ millions)

Figure 45. APAC Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Region in 2026

Figure 46. APAC Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share by Region (2021-2026)

Figure 47. APAC Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Type (2021-2026)

Figure 48. APAC Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Application (2021-2026)

Figure 49. China Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 50. Japan Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 51. South Korea Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 52. Southeast Asia Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 53. India Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 54. Australia Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 55. China Taiwan Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 56. Europe Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Country in 2026

Figure 57. Europe Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share by Country (2021-2026)

Figure 58. Europe Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Type (2021-2026)

Figure 59. Europe Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Application (2021-2026)

Figure 60. Germany Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 61. France Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 62. UK Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 63. Italy Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 64. Russia Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 65. Middle East & Africa Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Country (2021-2026)

Figure 66. Middle East & Africa Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Type (2021-2026)

Figure 67. Middle East & Africa Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share by Application (2021-2026)

Figure 68. Egypt Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 69. South Africa Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 70. Israel Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 71. Turkey Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 72. GCC Countries Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Growth 2021-2026 (\$ millions)

Figure 73. Manufacturing Cost Structure Analysis of Black LiNbO₃ and Black LiTaO₃ Wafers in 2026

Figure 74. Manufacturing Process Analysis of Black LiNbO₃ and Black LiTaO₃ Wafers

Figure 75. Industry Chain Structure of Black LiNbO₃ and Black LiTaO₃ Wafers

Figure 76. Channels of Distribution

Figure 77. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Forecast by Region (2027-2032)

Figure 78. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share Forecast by Region (2027-2032)

Figure 79. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share Forecast by Type (2027-2032)

Figure 80. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share Forecast by Type (2027-2032)

Figure 81. Global Black LiNbO₃ and Black LiTaO₃ Wafers Sales Market Share Forecast by Application (2027-2032)

Figure 82. Global Black LiNbO₃ and Black LiTaO₃ Wafers Revenue Market Share Forecast by Application (2027-2032)

I would like to order

Product name: Global Black LiNbO₃ and Black LiTaO₃ Wafers Market Growth 2026-2032

Product link: <https://marketpublishers.com/r/G5DE859E689CEN.html>

Price: US\$ 3,660.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G5DE859E689CEN.html>