

Global Black LiNbO₃ and Black LiTaO₃ Wafers 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 Black LiNbO₃ and Black LiTaO₃ Wafers market size was valued at US\$ 178 million in 2025 and is forecast to a readjusted size of US\$ 418 million by 2032 with a CAGR of 13.2% during review period.

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.

This report is a detailed and comprehensive analysis for global Black LiNbO₃ and Black LiTaO₃ Wafers 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 Black LiNbO₃ and Black LiTaO₃ Wafers market size and forecasts, in consumption value (\$ Million), sales quantity (Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Black LiNbO₃ and Black LiTaO₃ Wafers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Black LiNbO₃ and Black LiTaO₃ Wafers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Black LiNbO₃ and Black LiTaO₃ Wafers market shares of main players, shipments in revenue (\$ Million), sales quantity (Pcs), and ASP (US\$/Pcs), 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 Black LiNbO₃ and Black LiTaO₃ Wafers

- 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 Black LiNbO₃ and Black LiTaO₃ Wafers 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 YAMAJU CERAMICS, Nano Quarz Wafer, Alfa Chemistry, HangZhou FreqControl Electronic, TDG Holding, PAM Xiamen, OST Photonics, etc.

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

Market Segmentation

Black LiNbO₃ and Black LiTaO₃ Wafers 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

Black Lithium Niobate Wafers

Black Lithium Tantalate Wafers

Market segment by Application

High Frequency SAW Devices

Electro-Optical

Others

Major players covered

YAMAJU CERAMICS

Nano Quarz Wafer

Alfa Chemistry

HangZhou FreqControl Electronic

TDG Holding

PAM Xiamen

OST Photonics

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 Black LiNbO₃ and Black LiTaO₃ Wafers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Black LiNbO₃ and Black LiTaO₃ Wafers, with price, sales quantity, revenue, and global market share of Black LiNbO₃ and Black LiTaO₃ Wafers from 2021 to 2026.

Chapter 3, the Black LiNbO₃ and Black LiTaO₃ Wafers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Black LiNbO₃ and Black LiTaO₃ Wafers 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 Black LiNbO₃ and Black LiTaO₃ Wafers 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 Black LiNbO₃ and Black LiTaO₃ Wafers.

Chapter 14 and 15, to describe Black LiNbO₃ and Black LiTaO₃ Wafers sales channel, distributors, customers, research findings and conclusion.

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