

Global Black LiTaO₃ & LiNbO₃ Wafer Market Growth 2026-2032

<https://marketpublishers.com/r/GAF8B3315A48EN.html>

Date: March 2026

Pages: 97

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

ID: GAF8B3315A48EN

Abstracts

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

Black LiTaO₃ & LiNbO₃ wafers are specially processed crystal wafers. A LiTaO₃ (lithium tantalate) wafer is a thin slice of lithium tantalate crystal. Chemically, it consists of lithium (Li), tantalum (Ta), and oxygen (O) atoms. Structurally, it has a trigonal crystal system with a perovskite - like structure. The unit cell contains three formula units of LiTaO₃. A LiNbO₃ (lithium niobate) wafer is a slice of lithium niobate crystal. Chemically, it is composed of lithium (Li), niobium (Nb), and oxygen (O) atoms. Structurally, it has a trigonal crystal system similar to a perovskite - like structure. The unit cell contains six formula units of LiNbO₃. The blackening process has a significant impact on the optical, electrical, piezoelectric and electro-optical properties of the wafer. For example, the blackening process can reduce the pyroelectric effect and light transmittance of the wafer, and significantly improve the conductivity and blackening uniformity of the wafer.

United States market for Black LiTaO₃ & LiNbO₃ Wafer 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 LiTaO₃ & LiNbO₃ Wafer 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 LiTaO₃ & LiNbO₃ Wafer 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 LiTaO₃ & LiNbO₃ Wafer players cover Sumitomo Metal Mining, Shin-Etsu, Koike, YAMAJU CERAMICS, 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 LiTaO₃ & LiNbO₃ Wafer Industry Forecast” looks at past sales and reviews total world Black LiTaO₃ & LiNbO₃ Wafer sales in 2025, providing a comprehensive analysis by region and market sector of projected Black LiTaO₃ & LiNbO₃ Wafer sales for 2026 through 2032. With Black LiTaO₃ & LiNbO₃ Wafer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Black LiTaO₃ & LiNbO₃ Wafer industry.

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

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

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

Segmentation by Type:

Black LiTaO₃ Wafer

Black LiNbO₃ Wafer

Segmentation by Application:

- Surface Acoustic Wave Devices
- Optoelectronic Devices
- Piezoelectric & Pyroelectric Devices
- 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.

Sumitomo Metal Mining

Shin-Etsu

Koike

YAMAJU CERAMICS

TDG Holding

CETC Deqing Huaying

Fujian Jinan

Hangzhou Freqcontrol

Key Questions Addressed in this Report

What is the 10-year outlook for the global Black LiTaO₃ & LiNbO₃ Wafer market?

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

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

How do Black LiTaO₃ & LiNbO₃ Wafer market opportunities vary by end market size?

How does Black LiTaO₃ & LiNbO₃ Wafer break out by Type, by Application?

The report requires updating with new data and is sent in 48 hours after order is placed.

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