

Global Black Phosphorus Crystal Production, Demand and Key Producers, 2022-2028

<https://marketpublishers.com/r/G9923F9C4D04EN.html>

Date: November 2022

Pages: 82

Price: US\$ 4,480.00 (Single User License)

ID: G9923F9C4D04EN

Abstracts

Black phosphorous, is one of ten allotropes of phosphorous. This material is a new entrant into the field of advanced 2-D materials and shares many of the same properties as others in the same class, such as graphene. Much of the excitement surrounding black phosphorous stems from its tunable band gap, a critical characteristic missing from graphene. Scientists have been successful in fine-tuning the band gap of black phosphorous in a range from 0.3 to 2.0 electron volts, a wider range than any other 2-D material currently being studied. The band gap also opens possibilities in photonics, since light absorption, emission, and modulation abilities are dependent upon the size of the band gap. Black phosphorus's wide band gap range allows it to absorb and emit light with wavelengths from 0.6 to 4.0 micrometers, both visible and infrared.

This report studies the global Black Phosphorus Crystal production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Black Phosphorus Crystal, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2021 as the base year. This report explores demand trends and competition, as well as details the characteristics of Black Phosphorus Crystal that contribute to its increasing demand across many markets.

The global Black Phosphorus Crystal market size is expected to reach \$ million by 2028, rising at a market growth of % CAGR during the forecast period (2022-2028).

Highlights and key features of the study

Global Black Phosphorus Crystal total production and demand, 2017-2028, (K Tons)

Global Black Phosphorus Crystal total production value, 2017-2028, (USD Million)

Global Black Phosphorus Crystal production by region & country, production, value, CAGR, 2017-2028, (USD Million) & (K Tons)

Global Black Phosphorus Crystal consumption by region & country, CAGR, 2017-2028 & (K Tons)

U.S. VS China: Black Phosphorus Crystal domestic production, consumption, key domestic manufacturers and share

Global Black Phosphorus Crystal production by manufacturer, production, price, value and market share 2017-2022, (USD Million) & (K Tons)

Global Black Phosphorus Crystal production by Type, production, value, CAGR, 2017-2028, (USD Million) & (K Tons)

Global Black Phosphorus Crystal production by Application production, value, CAGR, 2017-2028, (USD Million) & (K Tons)

This reports profiles key players in the global Black Phosphorus Crystal market based on the following parameters – headquarters, production locations, products portfolio, Black Phosphorus Crystal revenue, sales, average price and gross margin, recent developments.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Black Phosphorus Crystal market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2017-2028 by year with 2021 as the base year, 2022 as the estimate year, and 2028 as the forecast year.

Global Black Phosphorus Crystal Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Global Black Phosphorus Crystal Market, Segmentation by Type

Alpha Black Phosphorus

Beta Black Phosphorus

Global Black Phosphorus Crystal Market, Segmentation by Application

Lithium Batteries

Hydrogen Energy

Chip Manufacturing

Communication

Medical

Others

Companies Profiled:

HQ Graphene

ACS Material

2Dsemiconductors USA

Novarials Corporation

Key Questions Answered

1. How big is the global Black Phosphorus Crystal market?
2. What is the demand of the global Black Phosphorus Crystal market?
3. What is the year over year growth of the global Black Phosphorus Crystal market?
4. What is the production and production value of the global Black Phosphorus Crystal market?
5. Who are the key producers in the global Black Phosphorus Crystal market?
6. What are the growth factors driving the market demand?

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