

# Global Potassium Titanyl Phosphate (KTP) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Potassium Titanyl Phosphate (KTP) market size is expected to reach \$ 233 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

Potassium titanyl phosphate (KTP) is a ferroelectric nonlinear optical crystal with the chemical formula  $\text{KTiOPO}_4$ . Its core function is to enable efficient nonlinear frequency conversion processes such as second-harmonic generation, sum-frequency generation, and optical parametric oscillation in laser systems. KTP features a relatively high nonlinear coefficient, good thermal stability, and strong resistance to optical damage, making it widely used as a green light frequency-doubling crystal in solid-state lasers.

The material is typically produced in single-crystal form using hydrothermal growth or high-temperature solution growth methods. Key technologies include high-purity raw material control, stable crystal growth interface management, defect density suppression, precision orientation cutting and polishing, and mitigation of gray tracking effects.

Upstream suppliers include high-purity chemical material providers, crystal growth equipment manufacturers, and precision processing enterprises. Downstream applications cover frequency-doubling modules for Nd:YAG solid-state lasers, medical laser systems, industrial laser processing equipment, and scientific optical research platforms. The overall industry gross margin generally ranges from 40% to 65%, positioning it within the nonlinear optical crystal materials segment.

In 2025, the global production of potassium titanyl phosphate (KTP) crystals was 640 kg, with an average price of US\$240,000 per kg.

This report studies the global Potassium Titanyl Phosphate (KTP) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Potassium Titanyl Phosphate (KTP) 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 Potassium Titanyl Phosphate (KTP) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Potassium Titanyl Phosphate (KTP) total production and demand, 2021-2032, (kg)

Global Potassium Titanyl Phosphate (KTP) total production value, 2021-2032, (USD Million)

Global Potassium Titanyl Phosphate (KTP) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Potassium Titanyl Phosphate (KTP) consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Potassium Titanyl Phosphate (KTP) domestic production, consumption, key domestic manufacturers and share

Global Potassium Titanyl Phosphate (KTP) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Potassium Titanyl Phosphate (KTP) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Potassium Titanyl Phosphate (KTP) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Potassium Titanyl Phosphate (KTP) 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 Coherent, Northrop Grumman, OXIDE, EKSMO Optics, Altechna, Cristal Laser, Newlight Photonics, United Crystals, CASTECH, CASIX, 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 Potassium Titanyl Phosphate (KTP) 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 Potassium Titanyl Phosphate (KTP) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Potassium Titanyl Phosphate (KTP) Market, Segmentation by Type:

Frequency-Doubling Type

Optical Parametric Oscillation Type

Electro-Optic Modulation Type

### Global Potassium Titanyl Phosphate (KTP) Market, Segmentation by Growth Process:

Hydrothermal Growth Crystal

High-Temperature Solution Growth Crystal

Global Potassium Titanyl Phosphate (KTP) Market, Segmentation by Processing Form:

Standard Bulk Crystal

Coated Crystal Element

Integrated Optical Module

Global Potassium Titanyl Phosphate (KTP) Market, Segmentation by Application:

Solid-State Laser Frequency Doubling

Medical and Aesthetic Laser Systems

Industrial Laser Processing

Scientific Optical Research

Others

Companies Profiled:

Coherent

Northrop Grumman

OXIDE

EKSMA Optics

Altechna

Cristal Laser

Newlight Photonics

United Crystals

CASTECH

CASIX

CRYSTECH

Union Optics

HG Optronics

**Key Questions Answered:**

1. How big is the global Potassium Titanyl Phosphate (KTP) market?
2. What is the demand of the global Potassium Titanyl Phosphate (KTP) market?
3. What is the year over year growth of the global Potassium Titanyl Phosphate (KTP) market?
4. What is the production and production value of the global Potassium Titanyl Phosphate (KTP) market?
5. Who are the key producers in the global Potassium Titanyl Phosphate (KTP) market?
6. What are the growth factors driving the market demand?

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