

# Global Potassium Titanyl Phosphate (KTP) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GF413C437C18EN.html>

Date: April 2026

Pages: 113

Price: US\$ 3,480.00 (Single User License)

ID: GF413C437C18EN

## Abstracts

According to our (Global Info Research) latest study, the global Potassium Titanyl Phosphate (KTP) market size was valued at US\$ 158 million in 2025 and is forecast to a readjusted size of US\$ 233 million by 2032 with a CAGR of 5.8% during review period.

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 is a detailed and comprehensive analysis for global Potassium Titanyl Phosphate (KTP) 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 Potassium Titanyl Phosphate (KTP) market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Potassium Titanyl Phosphate (KTP) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Potassium Titanyl Phosphate (KTP) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Potassium Titanyl Phosphate (KTP) market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 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 Potassium Titanyl Phosphate (KTP)
- 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 Potassium Titanyl Phosphate (KTP) 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 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.

## **Market Segmentation**

Potassium Titanyl Phosphate (KTP) 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

Frequency-Doubling Type

Optical Parametric Oscillation Type

Electro-Optic Modulation Type

### Market segment by Growth Process

Hydrothermal Growth Crystal

High-Temperature Solution Growth Crystal

### Market segment by Processing Form

Standard Bulk Crystal

Coated Crystal Element

## Integrated Optical Module

### Market segment by Application

Solid-State Laser Frequency Doubling

Medical and Aesthetic Laser Systems

Industrial Laser Processing

Scientific Optical Research

Others

### Major players covered

Coherent

Northrop Grumman

OXIDE

EKSMA Optics

Altechna

Cristal Laser

Newlight Photonics

United Crystals

CASTECH

CASIX

CRYSTECH

Union Optics

HG Optronics

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 Potassium Titanyl Phosphate (KTP) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Potassium Titanyl Phosphate (KTP), with price, sales quantity, revenue, and global market share of Potassium Titanyl Phosphate (KTP) from 2021 to 2026.

Chapter 3, the Potassium Titanyl Phosphate (KTP) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Potassium Titanyl Phosphate (KTP) 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 Potassium Titanyl Phosphate (KTP) 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 Potassium Titanyl Phosphate (KTP).

Chapter 14 and 15, to describe Potassium Titanyl Phosphate (KTP) sales channel, distributors, customers, research findings and conclusion.

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