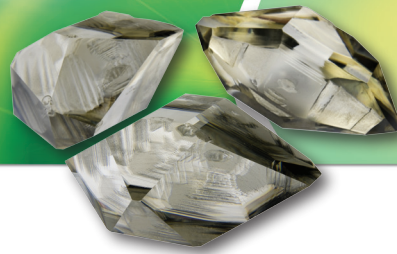




Grown in France,
Manufactured in France, Sold all over the World.



KTA

Potassium Titanyle Arsenate – $KTiOAsO_4$

Applications

Operation

**Optical
Parametric
Oscillator**

Advantages

- + High Efficiency
- + High transmission in the 3-3.5 μ m range
- + Small walk-off

Field of Application

- + Eye-safe designators and range-finders with mid-high average powers
- + Spectroscopy, gas detection

Optical properties

Average refractive index

1.8

Coefficients in Sellmeier's equation

$$\left[n_i^2 = A_i + \frac{B_i \lambda^2}{\lambda^2 - C_i^2} - D_i \lambda^2 \right]$$

for $0.4 < \lambda < 4 \mu\text{m}$

Index	A	B	C	D
n_x	1.90713	1.23522	0.19692	0.01025
n_y	2.15912	1.00099	0.21844	0.01096
n_z	2.14786	1.29559	0.22719	0.01436

Fenimore, Schepler, Ramadabran, McPherson,
J. Opt. Soc. Am. B Vol 12(5) 1995

Transparency range, μm

0.35 \rightarrow 5.3

Residual absorption (PCI) at 1064nm:

<200 ppm/cm

Physical properties

Chemical formula

$KTiOAsO_4$

Crystal structure

Orthorhombic

Point group

mm2

Lattice parameters, \AA

a 13.12

b 6.56

c 10.79

Hardness (Mohs)

5.5

Hygroscopic susceptibility

none

Density, g.cm^{-3}

3.45

Resistivity (20°C, 20% Humidity), Ohm.cm

10^6

Aperture, mm^2 :

from 1x1 to 10x10

Length, mm:

up to 20

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