

# Laser Crystal Manufactuer in China

Offer Nd:Ce:YAG Laser Crystal, Laser Crystal, NLO Crystal, Birefringent Crystal, Window

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# Video

**Diffusion Bonded Crystal** 

#### **Laser Crystal**

Nd:YAG Laser Crystal

Cr<sup>4+</sup>:YAG Laser Crystal Er:YAG Laser Crystal

### Nd:Ce:YAG Laser Crystal

Yb:YAG Laser Crystal

Nd:YLF Laser Crystal

Nd:YVO<sub>4</sub> Laser Crystal

### **Optical Windows**

**BK7 Standard Windows** 

BK7 High Precision Windows

Fused Silica Standard Windows

Fused Silica High Precision

Windows

Coating Film

BK7 Plano-Convex Cylindrical

Lens

#### Lens

BK7 Plano-Convex Lens

Fused Silica Plano-Convex Lens

BK7 Double Convex Lens

Fused Silica Double Convex

Lens

BK7 Plano-Concave Lenses

Fused Silica Plano-Concave

Lens

BK7 Double Concave Lenses

Fused Silica Double Concave Lens

Coating Film

BK7 Plano-Convex Cylindrical

Lens

### **Optical Mirror**

**BK7 Standard Substrate** 

BK7 High Precision Substrate

Fused Silica Standard Substrate

Fused Silica High Precision

Substrate

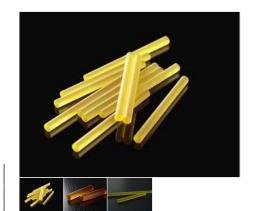
Beam Splitter Plate

Nd: YAG Laser Beam Combiner

Scanning Mirror

Coating Film

BK7 Plano-Convex Cylindrical



# Nd:Ce:YAG Laser Crystal

Nd: Ce: YAG

Nd:Ce:YAG crystal is an excellent laser material used for no-water cooling and miniature laser systems. The (Nd, Ce): YAG laser rod we produce has the characteristics of high efficiency, low threshold, anti-violet radiation and high repetition frequency for lasers operation. It has achieved the international advanced level. It is the most ideal laser material for the high repetition air cooling lasers. It suitable for different modes of operation (CW, pulsed, Q-switched, mode locked, doubling of frequency) and high-average power lasers

+ Consulting Products Information

#### Advantages:

- 1. Low threshold
- 2. Very high slope efficiency
- 3. Good thermal stability
- 4. High optical quality
- 5. Good anti-UV irradiation property

**Application:** Laser Rangefinder **Format:** Rods, Discs and Slabs

Rod sizes: Diameter: 2- 10mm, Length: 30 - 150mm

Disc sizes: Diameter: 2 - 15mm, Thickness: >= 1mm

Slab sizes: Length: 60 - 150mm, Width: 6 - 15mm, Thickness:

3 - 4mm

**Ends:** Plane, Brewster, Concave and Convex **Sides:** Ground, Polished and Grooved

# **Specifications**

Dopant Concentration Nd:0.9~1.3at%, Ce:Nd=1:10

Orientation [111] within  $5^{\circ}$  Wavefront Distortion  $\leq 0.2\lambda/\text{inch}$ 

Extinction Ratio ≥28 dB

Rod Sizes Diameter:3~6mm, length:40~100mm

Dimensional Tolerances

Diameter: ±0.05mm, length: ± 0.5mm

Barrel finish

Ground finish with 400#or polished

Parallelism ≤10" Perpendicularity ≤5'

Flatness  $\lambda/10$  @632.8nm Surface quality 10-5(MIL-O-13830A) AR coating Reflectivity  $\leq 0.25\%$  (@1064nm)

Damage Threshold 700MW/cm²10ns 1Hz at 1064nm

### Main Properties of Nd:Ce:YAG crystal:

Laser Wavelength

1.064µr

Send Message

4.5Å @1064nm

Emission Cross Section (Nd1at%) 2.7~8.8×10-19cm-2

Fluorescence Lifetime (Nd1at%) 230µs

Index of Refraction1.8197@1064nmLattice Parameters12.01 ÅMelting Point1970°CMoh Hardness8.5

Density 4.56±0.04g/cm<sup>3</sup> Specific Heat (0-20) 0.59J/g.cm<sup>3</sup>

Thermal Expansion Coefficient [111]Direction:7.8×10-6/°C(0~250°C)

### Feedback Form

**NLO Crystal** 

LBO Crystal

BBO Crystal

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KTP Crystal

KDP, KD\*P Crystal

LiNbO<sub>3</sub> / LN Crystal

Window Crystal

YAG Crystal

Sapphire Crystal

CaF<sub>2</sub> Crystal

MgF<sub>2</sub> Crystal

BaF<sub>2</sub> Crystal

LiF Crystal

Laser Rod Repolishing

**Laser Safety Glasses** 

**Optical Filter** 

Medical IPL Filter

Interference Filter

**Light Pipe Homogenizing** 

**Laser Beauty Supplies** 

Laser Handle

Laser Bonding Crystal









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Company
Your Company Name.
Tel./Fax.

### **Related Products**



### Nd:YVO<sub>4</sub> Laser Crystal

Nd:YVO4 crystal is one of the most excellent laser host materials, it is suitable for diode laser-pumped solid state laser. Compactly designed Nd3+:YVO4 lasers with green, red and blue light output are really perfect means for material processing....

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