



Laser Crystal Manufactuer in China

Offer Nd:Ce:YAG Laser Crystal, Laser Crystal, NLO Crystal, Birefringent Crystal, Window Crystal To You.

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- [Products](#)
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- [Certificates](#)
- [Exhibition](#)
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- [Trade Offer](#)

Home » Products » Laser Crystal » Nd:Ce:YAG Laser Crystal

Video



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

[+ Consulting Products Information](#)

Specifications

Dopant Concentration	Nd:0.9~1.3at%, Ce:Nd=1:10
Orientation	[111] within 5°
Wavefront Distortion	≤ 0.2λ/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	λ/10 @632.8nm
Surface quality	10-5(MIL-O-13830A)
AR coating Reflectivity	≤ 0.25% (@1064nm)
Damage Threshold	700MW/cm²10ns 1Hz at 1064nm

Main Properties of Nd:Ce:YAG crystal:

Laser Wavelength	1.064μm
Emission Linewidth	4.5Å @1064nm
Emission Cross Section (Nd1at%)	2.7~8.8×10-19cm-2
Fluorescence Lifetime (Nd1at%)	230μs
Index of Refraction	1.8197@1064nm
Lattice Parameters	12.01 Å
Melting Point	1970°C
Moh Hardness	8.5
Density	4.56±0.04g/cm³
Specific Heat (0-20)	0.59J/g.cm³
Thermal Expansion Coefficient	[111]Direction:7.8×10-6/°C(0~250°C)
Thermal Conductivity	14W/m/K(@20°C) 10.5W/m/K(@100°C)

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Diffusion Bonded Crystal

[Laser Crystal](#)

Nd:YAG Laser Crystal

Cr⁴⁺:YAG Laser Crystal

Er:YAG Laser Crystal

[Nd:Ce:YAG Laser Crystal](#)

Yb:YAG Laser Crystal

Nd:YLF Laser Crystal

Nd:YVO₄ 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 Lens

NLO Crystal

LBO Crystal
BBO Crystal
KTP Crystal
KDP, KD*P Crystal
LiNbO₃ / LN Crystal

Window Crystal

YAG Crystal
Sapphire Crystal
CaF₂ Crystal
MgF₂ Crystal
BaF₂ 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



*Email

*Content

Product Name

Your Name

Company

Tel./Fax.

Related Products



[Nd:YVO₄ 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....