

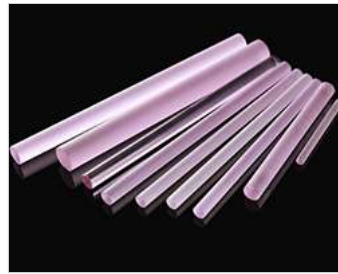


Laser Crystal Manufacturer in China

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

[Add To Favotites](#)[Set It As My Home](#)[English](#)[Deutsch](#)[Русский](#)[Home](#)[Products](#)[About Us](#)[Certificates](#)[Exhibition](#)[Gallery](#)[Contact Us](#)[Trade Offer](#)[Home » Products » Laser Crystal » Nd:YAG Laser Crystal](#)

Video

[Diffusion Bonded Crystal](#)[Passive Q-Switch Crystal](#)[Cr⁴⁺:YAG 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](#)[KTP Crystal](#)[LBO Crystal](#)[BBO 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](#)

Nd:YAG Laser Crystal

Nd:YAG

Nd:YAG crystal is the most early and mature laser material adopted by R&D, medical, industrial and military customers. It is the ubiquitous presence for near-infrared solid-state lasers and their frequency-doubler, tripler, and higher order multiplier.

[+ Consulting Products Information](#)

Advantages:

1. High Gain, High Efficiency, Low Threshold
2. High Optical Quality and low Loss at 1064 nm
3. Good Mechanical and Thermal Properties
4. Easy to operate with TEM₀₀ mode (Q-Switch, pulsed, CW)

Specifications:

Nd dopant concentration	0.4~1.2 at %
Orientation	<111> within5°
Barrel finish	Ground finish 400#Gmt
Flatness	<λ/10 @ 632.8 nm
Parallelism	≤10 "
Perpendicularity	≤5 '
Surface Quality	10/5 (MIL-O-13830A)
Optical Quality	Interference fringes ≤ 0.125 /inch Extinction ration Ø3~Ø6.35 ≥ 28db, Ø7~Ø10 ≥ 25dB Rods: Ø (3~10)mm×(30~180)mm (L) Slabs: (3~12)mm×(6~24)mm×(60~180)mm (L) Upon request of customer
Size	Diameter: +0.15 (±0.05mm) Length: ±0.5mm, chamfer: <0.1 mm @ 45°
Dimensional tolerances	R≤ 0.2% (@1064nm) R>99.8%@1064nm and T>95%@808nm
AR-Coating Reflectivity	HR @ 1064/532 nm, HR @ 946nm, HR@1319nm and other wavelengths are also available
HR-Coating Reflectivity	
Other HR coatings	
Damage Threshold	>700MW/cm ² 10ns 1Hz at 1064nm

Main properties of Nd:YAG crystal:

Chemical formula	Nd ³⁺ :Y ₃ Al ₅ O ₁₂
Crystal structure	Cubic
Density	4.56 g/cm ³
Melting Point	1970℃
Specific Heat	0.59J/g K(at 300K)
Mohs Hardness	8.5
Thermal Expansion Coefficient	7.8 x 10-6/K [111], 0 -250℃
Thermal Conductivity	0.14W/m/K@20℃
Loss Coefficient	0.003 cm ⁻¹ @1064 nm
Laser Wavelength	1064nm
Fluorescence Lifetime	230μs
Emission Cross Section	7.5 x 10 ⁻¹⁹ cm ²
Index of Refraction	1.8197

Feedback Form

*Email

*Content

Product Name

Your Name

Company

Tel./Fax.

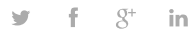
Medical IPL Filter
Interference Filter

Light Pipe Homogenizing

Laser Beauty Supplies

Laser Handle

Laser Bonding Crystal



Related Products



[Er:YAG Laser Crystal](#)

Er:YAG crystal is an excellent laser crystal which lasers at 2.94μm. This wavelength is the most readily absorbed into water and hydroxylapatite of all existing wavelengths and is considered a highly surface cutting laser. It is a well known material for medical applications....

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

[Top](#)

[Nd:YAG Laser Crystal](#) | [YAG Laser Crystal](#) | [3D Laser Crystal](#) | [Custom Laser Crystal](#) | [Laser Crystal Light](#) | [Laser crystal Gifts](#) | [Window crystal](#) | [Organic NLO Crystals](#)

[Review](#)

[ETW CLOUD](#) [VRC](#) [RSS](#) [SITEMAP](#) [LEGAL](#)