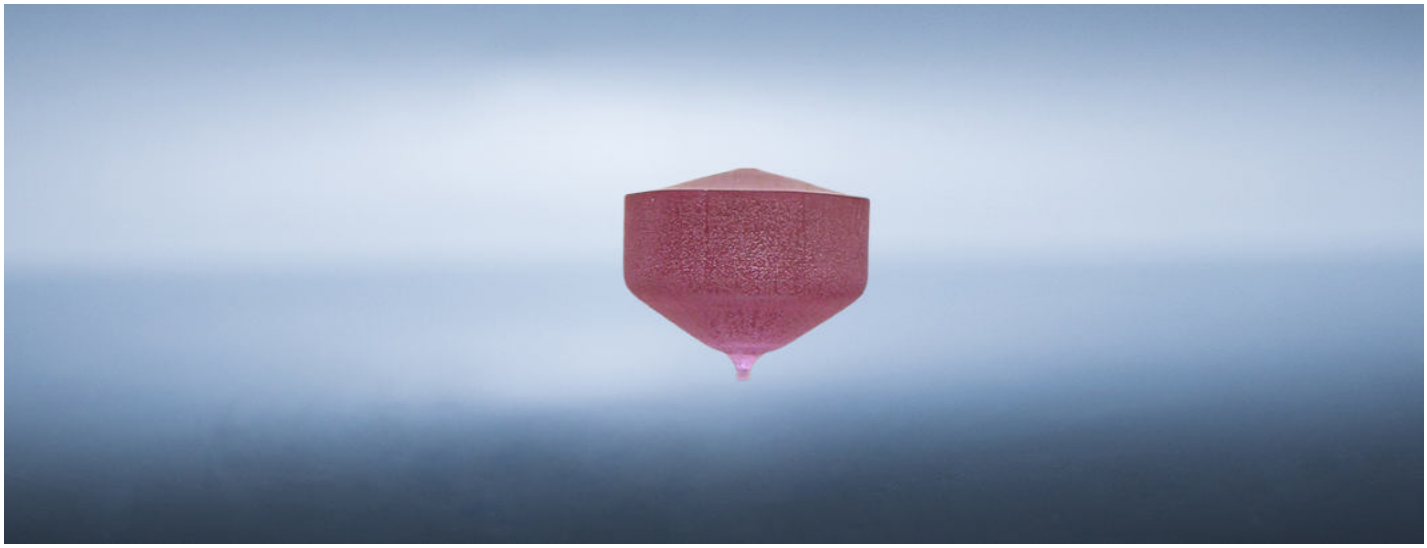
Nd:GGG



DESCRIPTION

CRYLINK's Nd:GGG crystal products, also known as Nd:Gd3Ga5O12 crystal. It is a kind of laser crystal product with excellent comprehensive performance. It is widely used in LD pump and laser working material field. The product has the characteristics of large stimulated emission cross section, high thermal conductivity and long emission time. Can be used in flash, solid state heat capacity laser, high power LD pumped Nd:GGG laser products.

FEATURES

- Long launch time
- High laser efficiency
- Low damage threshold
- High thermal conductivity
- High specific heat capacity
- Large stimulated emission cross section

APPLICATIONS

- Flash lamp
- LD Pumping
- Solid-state thermal laser
- High-power LD pump Nd: GGG laser

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Nd:GGG

STANDARD SPECIFICATIONS

Doping concentration	0.5~3 at.%
Directional	[111] within± 5º
Wavefront distortion	≤ 0.5λ/inch@632.8 nm (for the rod)
Extinction ratio	≥ 20dB @632.8 nm (for the rod)
Size	Diameter: 2~70mm, Length: 3~100mm
Dimensional tolerances	Diameter: +0.00"/-0.002", Length: ± 0.02"
Barrel finish	Ground Finish with 400# Grit or polished
Parallelity	≤ 10 arcsec (for the rod)
Flatness	≤λ/4@632.8nm (for the rod)
AR coating reflectivity	≤0.25% @1060nm

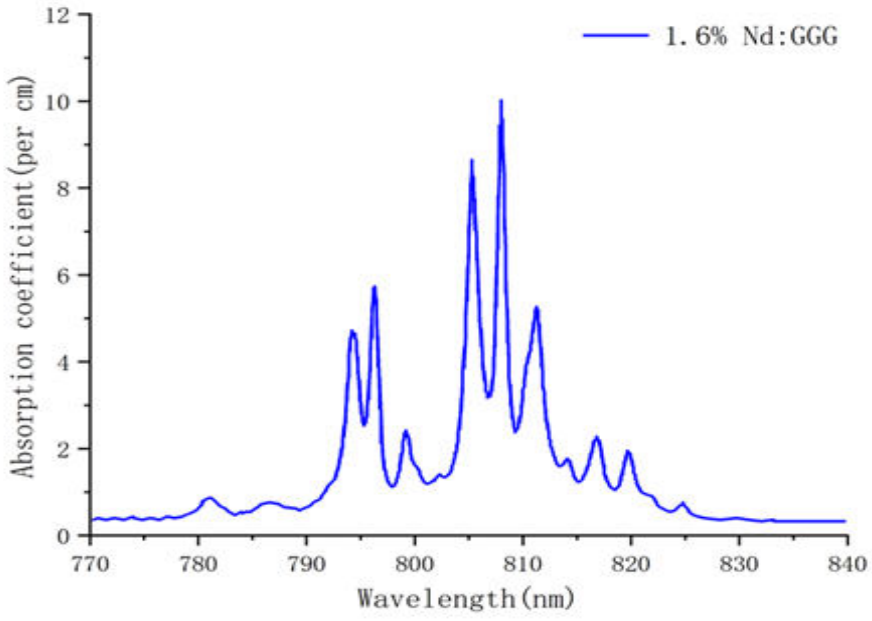
OPTICAL AND SPECTRAL PROPERTIES

Laser conversion	4F3/2→4I11/2
Laser wavelength	1060nm
Fluorescent lifetime	240μs
Refractive index	1.94@1060nm
Diode pump band	808nm, 881nm

PHYSICAL AND CHEMICAL PROPERTIES

Crystal structure	Cubic
Lattice constant	12.383 Å
Mohs hardness	8
dn/dT	17×10-6/K
Poisson ratio	0.28
Melting point	1725°C
Density	7.1 g/cm3
Thermal expansion	8×10-6C-1

SPECTROGRAM



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