

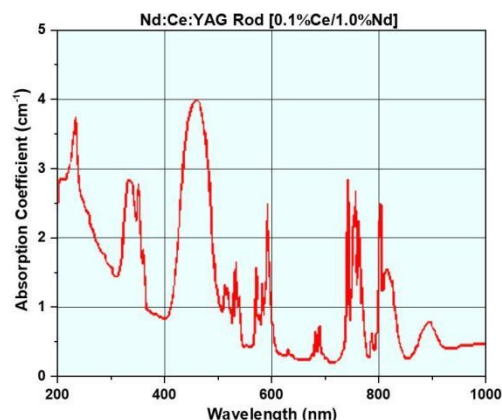
Nd:Ce:YAG

Nd:Ce:YAG laser rod has many advantages, such as small thermal distortion, high output efficiency, good beam quality and so on. It is widely used in repetition frequency air-cooled (or naturally cooled) lasers. The laser with Nd:Ce:YAG as the working substance has the characteristics of high efficiency, low threshold, ultraviolet radiation resistance and good repetition frequency.

Main features:

- Improve beam quality, increase damage threshold and reduce thermal effect
- Good thermal stability
- Improve the service life of the laser
- Good resistance to ultraviolet radiation
- Improve the efficiency and improve the output stability of the laser

Absorption curve of Nd:Ce:YAG



Typical applications:

- Small laser rangefinder and laser medical instrument
- Aerospace
- Military industry, scientific research, industry and other fields
- Suitable for a variety of working modes (pulse, Q switch, mode locking)

Customized service:

- Different sizes and angles can be customized
- Provide coating service
- High quality assurance

Technical Parameters

Parameters	Values & Ranges
Size tolerance	Diameter: +0.000"/- 0.002", Length: ± 0.02"
Clear aperture	> 90%
Chamfering	0.006" ± 0.002" at 45° ± 5°
Extinction ratio	≥ 28 dB
Finish	10/5
Flatness	< λ/10@633nm
Wavefront distortion	< λ/8@633nm
Parallelism	≤ 10 arc sec
Perpendicularity	≤ 5 arc min
Doping concentration	Nd:1.1~1.4 at%, Ce:0.05~0.1 at%
Anti-reflection membrane system	≤ 0.25% (@ 1064nm)
Quality warranty period	1 year (under normal use)

See appendix P37 for more information