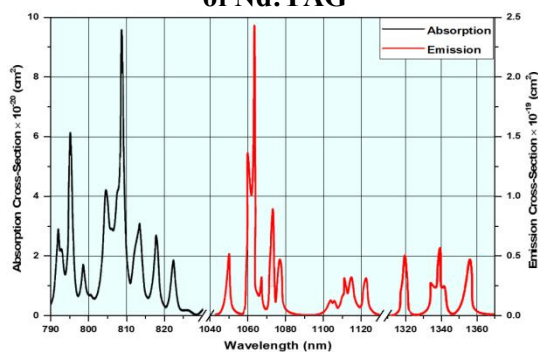


Nd:YAG

Nd:YAG crystal, the earliest and most famous laser host crystal with advantageous properties, is ubiquitously used for near IR solid lasers and their frequency-doubler, tripler, and higher order multiplier. Compared with Nd:YVO₄, it is more efficient and easier to implement.

**Absorption and emission curves
of Nd:YAG**



Main features:

- High gain, low threshold, high optical quality and high efficiency
- Low loss at 1064nm
- Good thermal conductivity and thermal shock characteristics
- Mechanical strength
- Material characteristics that allow for various modes of operation (CW, pulsed, Q-switched, mode locked)

Typical applications:

- Photoelectric countermeasure equipment system
- High-performance laser instrument, laser marking machine
- High Power, High Energy, Q-Switched and Mode-locked Ultrashort Pulse Lasers

Standard Products

Model	Diameter (mm)	Length (mm)	Doping (%)	Coating
NYG-301	3	50	0.8	AR/AR@1064 nm
NYG-302	3	100	0.8	AR/AR@1064 nm
NYG-303	3	10	1.1	AR/AR@1064 nm
NYG-304	3	50	1.1	AR/AR@1064 nm

For more information about products click on: www.voyawave.com

Technical Parameters

Names of Parameters	Values & Ranges
Length tolerance	± 0.5 mm
Dimension tolerance	± 0.05 mm
Chamfering	≤ 0.1 mm × 45°
Finish	10/5
Flatness	λ/8
Wavefront distortion	< λ/8@633nm
Parallelism	< 20 arc sec
Perpendicularity	< 5 arc min
Doping concentration	0.3~2.0 (± 0.1) atm%
Quality warranty period	1 year (under normal use)

See appendix P36 for more information