

Nd: YAG CRYSTALS

Nd:YAG crystals are used in all types of solid-state lasers systems-frequency-doubled continuous wave, high-energy Q-switched, and so forth. Compared with others laser crystals, its fluorescence lifetime is twice more than Nd:YVO4, and thermal conductivity is also better. Sanctitylaser supplies quality Nd:YAG rods with high optical homogeneity, consistent performance, and high processing accuracy.



Specification

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Dimension	10 × 160mm and maximum diameter of dia. 20mm × 2mm
Nd Dopant Level	0.5 ~ 1.2 [±0.1] atm%
Orientation	±30 arc minutes
Diameter Tolerance	±0.05mm
Length Tolerance	±0.5mm
Perpendicularity	< 5 arc minutes
Parallelism	<10 arc seconds
Wavefront distortion	λ/8
Flatness	λ/10
Scratch/Dig	10 / 5
Chamfer	0.1mm × 45°
HR-Coating	R>99.8%@1064nm and R<5%@808nm
AR-Coating [Single layer MgF2]:	R<0.25% per surface [@1064nm]
Other HR coatings	Such as HR @ 1064/532 nm, HR @ 946nm, HR 1319 nm and other wavelengths are also available
Damage Threshold	>500mW/cm ²