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Nd:YAG

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Nd:YAG is the most common laser crystal with a laser emission wavelength of 1064 nm, with a diameter up to 1 µm and usable for a wide range of applications.

Material Parameters

Host crystal	$Y_3Al_5O_{12}$
Lattice type, symmetry, space group	Garnet, cubic, m3m
Hardnes (Mohs)	8
Dopant concentration (Nd ³⁺)	0.1 to 2.5 at%
Crystallographic orientation	[111], [100], other orientations on request
Fluorescence lifetime	235 µs (at 1 at% Nd)
Emission cross section	$8 \cdot 10^{-19} \text{ cm}^{-2}$
Index of refraction (1064 nm)	1.82

Laser Elements

Laser rods with length up to 120 mm, diameter 1 to 10 mm (standard specifications (<http://fee-io.de/standard-specifications/>));

Dopant concentrations on request, many concentrations between 0.1 at% and 1.8 at% are on stock!

Slabs in various sizes and orientations, thin discs.

Coatings

Coatings upon request, AR1064, AR1064/808, various AR/HR combinations



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