



(<https://www.fee-io.de/>)

# Yb:YAG

Yb:YAG is the Laser crystal for high power lasers, especially when polished to thin disks. Available with concentrations up to 20 at% Yb.

Material Parameters	
Host crystal	$Y_3Al_5O_{12}$
Lattice type	garnet, cubic
Dopant concentration (Yb <sup>3+</sup> )	0.1 to 20 at%
Crystallographic orientation	[111], [100], other orientations on request
Index of refraction	1,82 @ 1040 nm

## Elements

- Laser rods with length up to 100 mm, diameter 1 to 10 mm (standard specifications (<http://fee-io.de/standard-specifications/>))
- Thin discs with thickness < 150µm, diameter up to 50 mm
- Segmented crystals

## Coatings

- Coatings upon request

SEARCH:

Search ...



FEE

(<https://www.fee-io.de/>)

## PAGES:

Crystals and Services ([https://www.fee-io.de/crystals\\_services/](https://www.fee-io.de/crystals_services/))

TGG ([https://www.fee-io.de/crystals\\_services/tgg/](https://www.fee-io.de/crystals_services/tgg/))

Nd:YAG ([https://www.fee-io.de/crystals\\_services/ndyag/](https://www.fee-io.de/crystals_services/ndyag/))

Yb:YAG ([https://www.fee-io.de/crystals\\_services/ybyag/](https://www.fee-io.de/crystals_services/ybyag/))

Cr<sup>4+</sup>:YAG ([https://www.fee-io.de/crystals\\_services/cr4yag/](https://www.fee-io.de/crystals_services/cr4yag/))

CTH:YAG ([https://www.fee-io.de/crystals\\_services/cthyag/](https://www.fee-io.de/crystals_services/cthyag/))

Segmented Crystals ([https://www.fee-io.de/crystals\\_services/segmented-crystals/](https://www.fee-io.de/crystals_services/segmented-crystals/))

Standard Specifications (<https://www.fee-io.de/standard-specifications/>)

Stellenangebote / Jobs (<https://www.fee-io.de/stellenangebote-jobs/>)

Manufacturing Engineering Manager (<https://www.fee-io.de/stellenangebote-jobs/manufacturing-engineer-manager/>)

Sales Manager — Europe (<https://www.fee-io.de/stellenangebote-jobs/sales-manager-europe/>)

Contact (<https://www.fee-io.de/contact/>)

Impressum (<https://www.fee-io.de/impressum/>)

Datenschutzerklärung (<https://www.fee-io.de/datenschutzerklärung/>)