



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

CTH:YAG

CTH:YAG is the Laser crystal for medical application with an emission wavelength of 2.1 μm .

Material Parameters

Host crystal	$\text{Y}_3\text{Al}_5\text{O}_{12}$
Lattice type	garnet, cubic
Dopant concentrations	Ho $0,5 \times 10^{20} \text{ cm}^{-3}$ Tm $8 \times 10^{20} \text{ cm}^{-3}$ Cr 1.8%
Emission wavelength	2080 nm
Fluorescence lifetime	8.5 ms
Crystallographic orientation	[111]
Index of refraction	1,802 @ 2100 nm

Elements

Laser rods with length up to 160 mm, diameter 1 to 7 mm (standard specifications (<http://fee-io.de/standard-specifications/>))

Coatings

Coatings upon request

SEARCH:



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TGG (https://www.fee-io.de/crystals_services/tgg/)

Nd:YAG (https://www.fee-io.de/crystals_services/ndyag/)

Yb:YAG (https://www.fee-io.de/crystals_services/ybyag/)

Cr⁴⁺:YAG (https://www.fee-io.de/crystals_services/cr4yag/)

CTH:YAG (https://www.fee-io.de/crystals_services/cthyag/)

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