

YTTRIUM VANADATE (YVO4) CRYSTALS

Product Description

HOBBITE® LASER OPTICS (YVO4 CRYSTALS)

Yttrium Vanadate (YVO4) crystals have good mechanical and physical properties and are ideal for optical polarizing components because of their wide transparency range and large birefringence. They are an excellent synthetic substitute for Calcite (CaCO3) and rutile (TiO2) in many applications including fiber optic isolators and circulators, beam displacers, Glan polarizers and other polarizing optics.

Specifications:

Type	YVO4 crystal	
Transparency Range	400~5000nm	
Density	4.22 g/cm ²	
Hygroscopic Susceptibility	NA	
Mohs Hardness	5	
Thermal Expansion Coefficients (/C ⁰)	11.4X10 ⁻⁶ (C)	/ 4.4X10 ⁻⁶ (A)
Thermal Conductivity	C: 5.23 w/m/k; ⊥C:5.10w/m/k	
Refractive Indices	No=2.01768, Ne=2.25081, 532nm	
	No=1.95714, Ne=2.16498, 1064nm	
Sellmeier Equation (λ in μm)	$n_o^2 = 3.77834 + 0.069736 / (1^2 - 0.04724) - 0.0108133 / \lambda^2$ $n_e^2 = 4.5909 + 0.110534 / (1^2 - 0.04813) - 0.0122676 / \lambda^2$	
RoHS	Compliant	

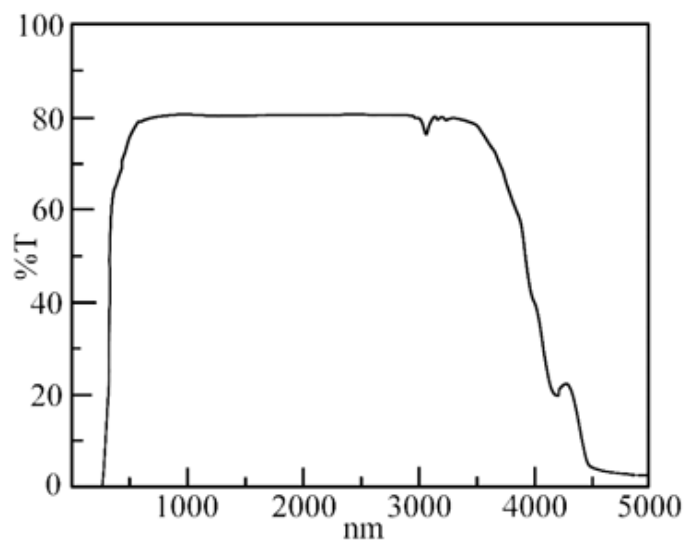
CHOOSE YOUR CATEGORY

- > Aluminum Nitride powder
- > Yttrium Vanadate (YVO4) crystals
- > LiTaO3: SLT/MgSLT
- > High Reflection Coating
- > Nd:YAG
- > Nd:GdVO4
- > Nd:YVO4
- > Cr4+:YAG
- > BBO/LiNbO3 Crystal
- > LiNbO3 Crystals
- > KTP Crystals
- > BBO

*"INNOVATION IS A
CONSTANT STATE
OF MIND AT
HOBBITE."*

Capabilities

Material	YVO4 Crystal
Size	1mm-25mm
Surface Quality	10-5
Optical Axis Orientation	6 arc min
Parallelism	<10 arc sec
Flatness	$\lambda/4@633\text{nm}$
Clear Aperture	>90%
Coating	AR coating
Mount	Upon Customer's Specification



Transparency Curve



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