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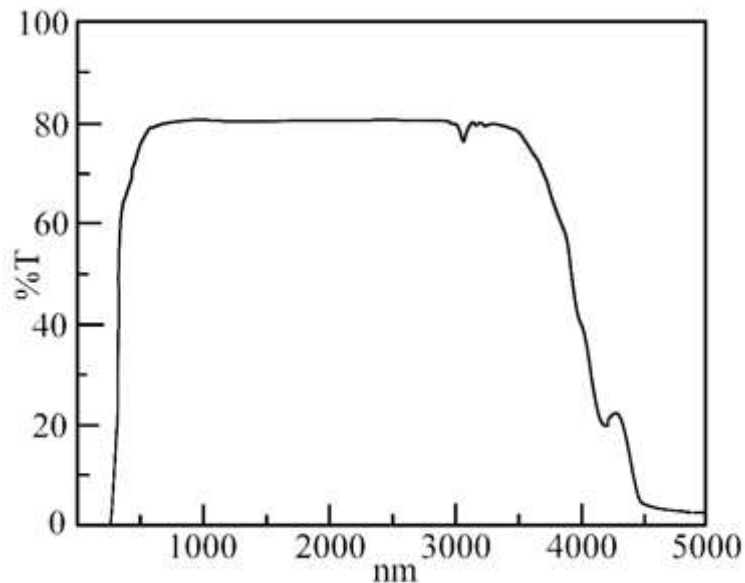
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Yttrium Vanadate (Nd:YVO4) Crystals

Yttrium Vanadate (Nd:YVO4) crystals are positive uniaxial crystals grown using the Czochralski method. They 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.

Transparency Curve for Nd:YVO4 (Thickness=1mm)



Capabilities

ATTRIBUTE	COMMERCIAL	HIGH PRECISION
Optical Axis Orientation	$\pm 0.5^\circ$	$\pm 0.1^\circ$
Parallelism	20"	10"
Perpendicularity	15'	5'
Flatness	$\lambda/4$	$\lambda/10$
Surface Quality	40-20 scratch and dig	10-5 scratch and dig
Dimension Tolerance	$\pm 0.1\text{mm}$	$\pm 0.005\text{mm}$
AR Coating	R<0.2%@1550 \pm 40nm Specified	

Additional Nd:YVO4 crystal and coating specifications are available upon request.

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Crystal Products

Laser Crystals

Nd: YVO4 Crystal

Nd: GdVO4 Crystal

DPM Crystal

Nd: YAG Crystal

CR4: YAG Crystal

Non-Linear Optical Crystals

Birefringent Crystals

IR Crystals

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