

Diese Internetseite verwendet Cookies, um die Nutzererfahrung zu verbessern und den Benutzern bestimmte Dienste und Funktionen bereitzustellen. Durch die weitere Nutzung stimmen Sie dem zu. [OKDetails](#)

Anschrift	<b>Xi'an Aofa OptoelectronicsTech.</b> Faraday Rotator/Magneto-Optic Glass No.126, Jin Hua North Road 710032 Xi'an
Land	China

## PRODUKTE ODER MASCHINEN

Faraday Roatator Glass is widely used especially in high-power optical rotator and isolator with large aperture, circulators,switches,polarimeters,magneto-optics sensor,high-power laser systems and other wanted Faraday Effect,etc. The main products as follow,please see Faraday Roatator Glass is widely used especially in high-power optical rotator and isolator with large aperture, circulators,switches,polarimeters,magneto-optics sensor,high-power laser systems and other wanted Faraday Effect,etc.

The main products as follow,please see Product Catalog for details.

\* Diamagnetic Faraday Rotator Glass.Type MR1 with very important properties, its high Verdet constant 0.071~0.075min/Oe\*cm at 632.8nm,it's independent of temperature from -50°~+135° with better thermal stability and widely used in magneto optical sensor and Magnetic-Optical Current Transducer (MOCT), etc.

\* Paramagnetism Faraday Rotator Glass/Magneto-Optical Glasses

Type MR3-2, Verdet constant -0.329 min/Oe-cm at 632.8nm or -95.7 rad/T\*m at 632.8 nm

Type MR3, Verdet constant -0.34 min/Oe-cm at 632.8nm or -98.9 rad/T\*m at 632.8 nm

Type MR4, Verdet constant -0.38 min/Oe-cm at 632.8nm or -110 rad/T\*m at 632.8 nm

MR3 and MR4 are the highest Verdet constant in the market available exclusively from XAOT

\* Faraday Rotators Rods with high sensitive and steady which are used for all kinds of magneto optical device and instruments.

### Product Description

Faraday Rotator Glass / Magneto Optical Glass

Since glass material in high power laser system is damaged as a consequence of self-focusing,low non-linear refractive index as well as high Verdet constant are important factors for Magneto-Optical Glass

Our world-leading Magneto Optical Glass with very high Verdet factor,we supply them with the shape or size of your choice

Very large plates/disks/rods from diameter 1.00 mm to 300 mm are available

Faraday Rotator Glass / Magnetic Optical Glass mainly used in faraday rotating components,fabricating optics-isolators,faraday rotators,circulators,magneto-optical modulators,optical switchs,interleavers,laser gyroscopes,goniometric devices magneto-optic storage and optical information process system,current measuring transducers for magnetic field measuring and high-voltage transmission line,new generation current sensors,wave guides, iatology,spaceflight control,satellite survey and other functional devices

Faraday Rotator Glass is made with more advanced technologies,so is performance stabilization,sensitive, and inherently immune to interfere.In comparison with artificial crystal,it is inexpensive and easy to get big size block,it has been made into different types of optical fibers,so it's widely used in many fields

### Specifications

The Properties of MR3-2 Faraday Rotator Glass / Magneto-Optical Glass

At 20 ° temperature

Verdet Constant -0.329min/Oe\*cm or -95.7rad/T\*m at 632.8 nm

Verdet Constant -0.108 min/Oe-cm or -31.4 rad/T\*m at 1064 nm

Transmission window:400nm-1600nm

## Refractive indices

ND=1.7441

Nd=1.7442

NF=1.7544

Nc=1.7400

N1064=1.7178

Optical Quality( $\Delta n$ ) /cm < 1x10<sup>-6</sup>.

## Abbe number:

VD=51.7

Vd=51.0

Nonlinear refractive index n2 (x10<sup>-13</sup> e.s.u.)=2.74

Figure of merit V632.8 (nd/n2)=0.62

Density (g/cm<sup>3</sup>):4.92

Transformation temperature Tg: 788°

Sag temperature Ts: 824°

Coeff.of linear thermal expansion:

0 - 300° (10<sup>-7</sup>/°)=62.6

100 - 300° (10<sup>-7</sup>/°)=68.2

Transparence rate T% ≥ 86% (Uncoated)

Transparence rate T% ≥ 98% (Coated)

Absorption coefficients < 0.002/cm at 1064nm.

Thermal conductivity=48.10/ °(0-100 °)

dv/dt=0.0016(0-40 °)

dv/dt=0.0006(40-80°)

Bulk laser<

## Company Profile of Xi'an Aofa OptoelectronicsTech.

A service of glassglobal.com, an affiliate of glassglobal group.

Die auf dieser Seite ausgedruckten Firmeninformationen unterliegen dem Urheberrecht und sind Eigentum der entsprechenden Firma. Alle Rechte sind ausdrücklich vorbehalten. Jeder Nutzer, der sich Zugang zu diesem Material zugänglich macht, tut dies zu seinem persönlichen Gebrauch und die Nutzung dieses Materials unterliegt seinem alleinigen Risiko. Die Weiterverteilung und jegliche andere gewerbliche Verwertung des vorliegenden Adressenmaterials ist ausdrücklich untersagt. In den Fällen, in denen solches Adressenmaterial durch eine dritte Partei beigestellt wurde, erklärt jeder Besucher sein Einverständnis, die speziellen zutreffenden Nutzungsbedingungen anzuerkennen und sie zu respektieren. Glass Global garantiert oder bürgt nicht für die Genauigkeit oder die Zuverlässigkeit von irgendwelchen Informationen, die in den veröffentlichten Adressinformationen enthalten sind, oder auch in Webseiten auf die hier Bezug genommen wird. www.glassglobal.com - Die Internationale Portalseite für die Glasindustrie - OGIS GmbH