



The Tightest Optical Positions

SCHOTT Provides Optical Glasses with the Lowest Tolerances for Refractive Index and Abbe Number

Mainz / Munich (Germany), April 23, 2013 – SCHOTT is now the first manufacturer to offer special optical glasses of the tolerance level 0.5. The maximum deviation from the nominal values listed in the datasheet is only ± 0.0001 with the refractive index n_d and ± 0.1 % with the Abbe number v_d with this new level of quality. This means SCHOTT has the narrowest optical tolerances available in the market.

Glasses of the tolerance level 0.5 are particularly well-suited for use in high precision lenses. To achieve the best possible resolution, several lenses must be precisely in tune with each other. The narrow optical position of the glasses helps to improve the quality of the lenses used in inspection systems in industry or microscopy.

In response to the growing demand, SCHOTT now offers the following preferred fine annealed and prepared glass types in the tolerance level 0.5 from stock: N-BK7 and N-BK7HT, N-KZFS4 and N-KZFS4HT, N-KZFS5, N-KZFS8, N-PK51 and N-FK51A. Other glasses of the tolerance level 0.5 are available upon request.

The range of preferred glasses now available supports a wide range of applications. For instance, highly homogeneous N-BK7HT is a typical prism glass. Or N-KZFS, with its abnormal partial dispersion, is used together with the fluorophosphate glass N-FK51A that is known for its low dispersion to perform precise apochromatic color corrections.

SCHOTT is able to achieve these extremely narrow tolerances by closely controlling the melting and annealing processes with the help of state-of-the art techniques used in glass manufacturing. Then, these glass products are measured

SCHOTT AG
LASER World of Photonics
Munich, Germany
May 13-16, 2013
Hall B2, Booth 306



extremely precisely and further referenced inside a V-block refractometer at SCHOTT.

Additional information: www.schott.com/advanced_optics

SCHOTT is an international technology group with more than 125 years of experience in the areas of specialty glasses and materials and advanced technologies. SCHOTT ranks number one in the world with many of its products. Its core markets are the household appliance, pharmaceuticals, electronics, optics, solar power, transportation and architecture industries. The company is strongly committed to contributing to its customers' success and making SCHOTT an important part of people's lives with its high-quality products and intelligent solutions. SCHOTT is committed to managing its business in a sustainable manner and supporting its employees, society and the environment. The SCHOTT Group maintains close proximity to its customers with manufacturing and sales units in 35 different countries. Its workforce of around 16,000 employees generated worldwide sales of approximately 2 billion euros for the 2011/2012 fiscal year. SCHOTT AG, with its headquarters in Mainz, Germany, is owned by the Carl Zeiss Foundation.

Characters: 1832 (incl. blanks)

Download-link to ZIP-file containing the picture in printable quality:
http://www.schott-pictures.net/presskit/198708.zeropointfive_en



Photo no. 197498: Optical glass: SCHOTT offers optical glasses with an extremely narrow optical position in the tolerance level 0.5 for use in sophisticated applications in microscopy, for example. Source: SCHOTT



Photos no. 197480 and 197481: V-block refractometer: Glasses of the tolerance level 0.5 are measured extremely precisely and further referenced inside a V-block refractometer at SCHOTT. Source: SCHOTT

More press pictures can be downloaded at: www.schott-pictures.net

Sales:

SCHOTT AG
Peter Held
Sales Industrial Optics Europe
Phone: +49 (0)6131/66-3716
Fax: +49 (0)3641/2888-9303
E-Mail: peter.held@schott.com
Internet: www.schott.com/advanced_optics

Press Contact:

SCHOTT AG
Christine Fuhr
PR Manager
Corporate Public Relations
Phone: +49 (0)6131/66-4550
Fax: +49 (0)6131/66-4041
E-Mail: christine.fuhr@schott.com
Internet: www.schott.com

Agency Contact:

oha communication
Oliver Hahr
PR Consultant
Phone: +49 (0)711/5088 6582-1
Fax: +49 (0)711/5088 6582-9
E-Mail: oliver.hahr@oha-communication.com
Internet: www.oha-communication.com