



# Nikon Glass News

Summer 2014

## Announcement

Nikon announced a reorganization of its corporate structure on May 16, 2014. Accordingly, Glass Division has been renamed Glass Business Unit. The new organization is designed to improve Nikon's business. Thank you for your continuing support.

## Purity of Nikon's synthetic silica glass

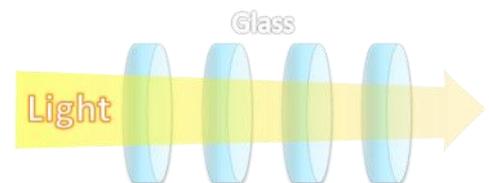
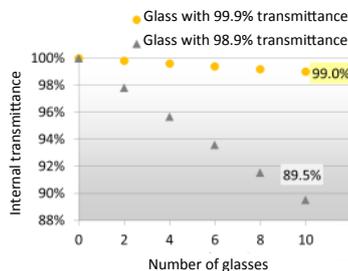
# < 0.2 ppb

Li	< 0.2 ppb
Na	< 0.2 ppb
K	< 0.2 ppb
Mg	< 0.2 ppb
Ca	< 0.2 ppb
Al	< 0.2 ppb
Ti	< 0.2 ppb
Cr	< 0.2 ppb
Fe	< 0.2 ppb
Cu	< 0.2 ppb

This is the representative value of impurity concentration in Nikon's synthetic silica glass in the NIFS-V and NIFS-A series.

"ppb" is a unit of density. "Less than 0.2 ppb" means "less than  $2 \times 10^{-10}$ ."

If compared to the world's population, the figure would represent no more than 1 person per 7,000,000,000. This suggests a very low level of impurity.



Nikon has achieved an impurity concentration of less than 0.2 ppb in its synthetic silica glass,

the world's highest level of purity.

Why purity in silica glass quality is important is that impurities absorb light and decrease transparency, namely transmittance.

As the chart on the left shows, when internal transmittance of silica glass falls by only 1% from 99.9%/cm due to impurities, about 10% of light is lost in optical equipment using 10 1-cm-thick silica glasses .

Nikon has achieved high transmittance in its synthetic silica glass as a result of eliminating impurities to the extreme. The glass can maximize the potential of users' optics and optical equipment.

Nikon Glass Business Unit has participated in many of the world's major optical exhibitions this year, including

SPIE Photonics West 2014 (Feb. 4 to 6, USA),

Lens Expo 2014 (Apr. 23 to 25, Japan),

Optatec 2014 (May 20 to 22, Germany),

OPTICS Taiwan 2014 (Jun. 17 to 19, Taiwan).

Nikon attracted a lot of attention after it displayed the world largest synthetic silica glass ingot at Lens Expo and OPTICS Taiwan. We appreciate the many people who visited our booths.



The Nikon booth at SPIE Photonics West 2014, Moscone Center, San Francisco, USA. This is one of the largest optics exhibitions in the semiconductor industry. Many optical equipment and component manufacturers visited the Nikon booth.



The Nikon booth at Lens Expo 2014, Pacifico Yokohama, Japan. On display for the first time ever was a 1-ton synthetic silica glass ingot, which attracted a lot of attention.



The Nikon booth at Optatec 2014, Messe Frankfurt, Germany. One year has passed since the Glass Business Unit opened its sales office in Europe. Local Nikon sales representatives and engineers attended to visitors in German, English and Japanese.



The Nikon booth at OPTICS Taiwan 2014, Taipei World Trade Center, Nangang Exhibition Hall, Taipei, Taiwan. On display for the first time ever at an overseas event was a 1-ton synthetic silica glass ingot.

Thank you for reading our newsletter. We also send our newsletter to those who have attended exhibitions. Please feel free to contact us at the email address below for inquiries or feedback.

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