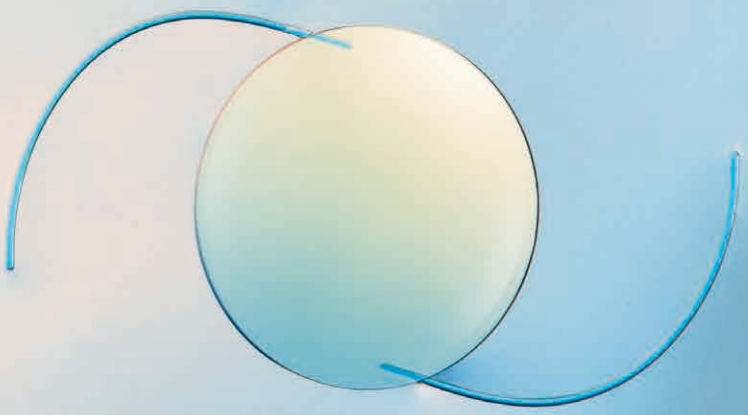
NIDEK

Tinted and Aspheric Hydrophobic Acrylic IOL

Nex-Acri™ AA Aktis



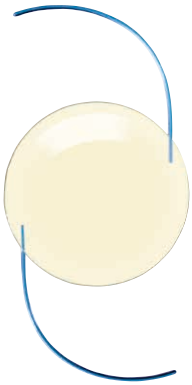
THE ART OF EYE CARE

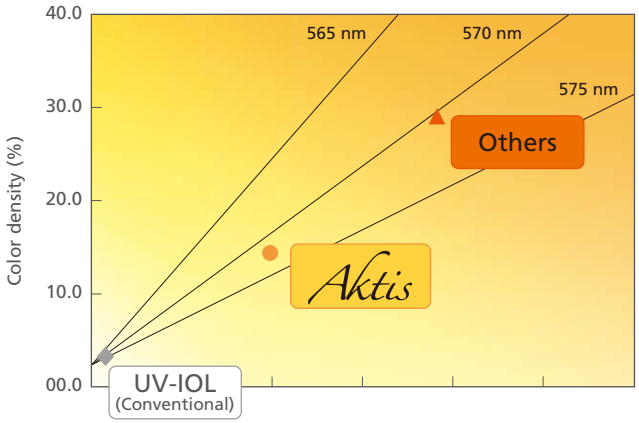
Tinted and Aspheric Hydrophobic Acrylic IOL

Nex-Acri™ AA Aktis

Optimum Color Density

The NIDEK's chemical technology allows the Aktis to be tinted to the color density close to the simulated young human crystalline lenses. The IOL with the color density similar to the young human crystalline lenses decreases the risk of the reduction of visual functions under low illuminance (i.e. chromatic vision and low contrast sensitivity), as reported in some articles,[1] maintaining advantages as reducing the photophobia and cyanopsia, improving the contrast sensitivity, and protecting against the harmful short wavelength light.

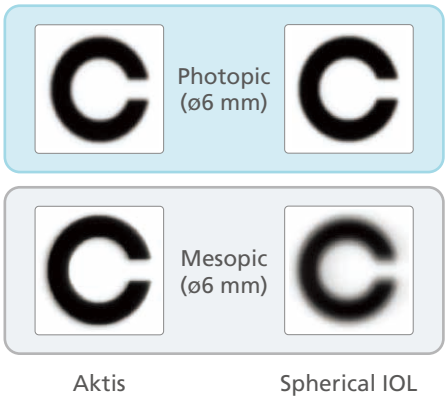




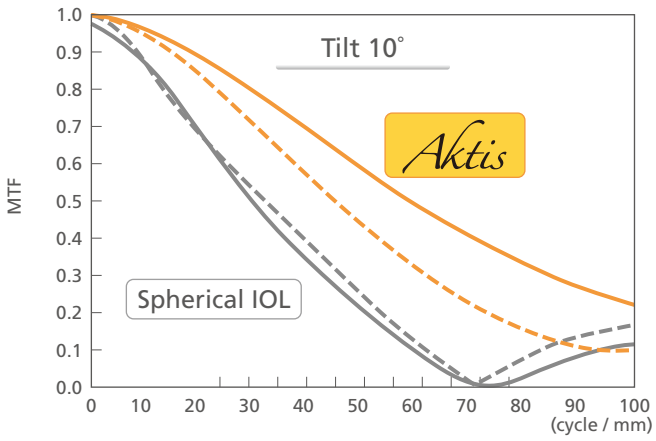
Chromaticity diagram

Advanced Aspherical Optic

The advanced aspherical optic of the Aktis provides higher optical performance even in malposition than the spherical IOL. Some conventional aspherical IOLs have lower optical performance in malposition, as reported in some articles.[2, 3, 4]
The Aktis of every diopter has constant aberration correction, -0.23 µm at approximately 6 mm in diameter.



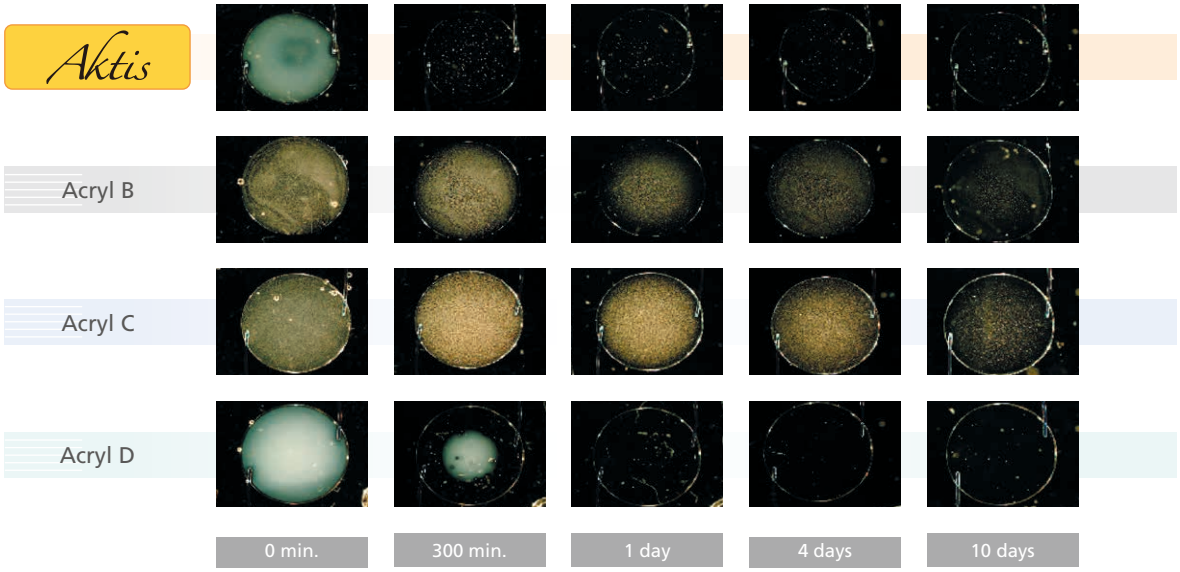
Simulated Landolt image



MTF of tilted IOL (ø5 mm / +24 D, in-house data)

Long-term Material Stability

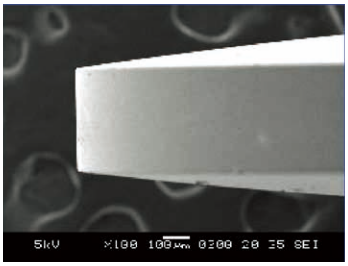
The NIDEK's unique polymer technology decreases voids in the Aktis's material structure. The structure with less void has the long-term material stability reducing glistening and whitening, as reported in some articles.[5, 6]



Accelerated test *in vitro* (50°C BSS/2 hrs→35°C BSS, in-house data)

True Square Edge

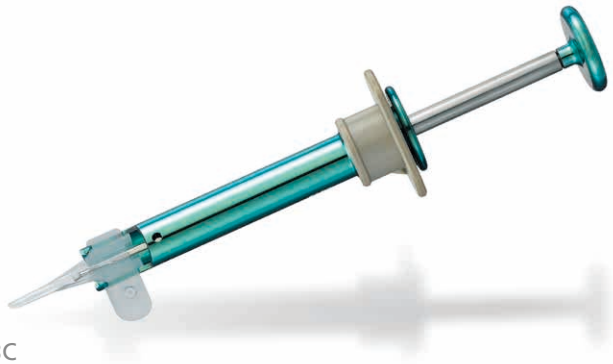
The true square edge of the Aktis, achieved by the NIDEK's fine machining technology, prevents posterior capsule opacification.[7]


SEM photo

Capsule cross section

Miyake-Apple view

Injector Specified for Aktis



Nex-IJ (Handpiece) IJ-2
Nex-IJ (Cartridge) Type 3C

Nex-Acri™ AA Aktis Specifications

Product name	Nex-Acri AA
Model	N4-18YG
Overall length	13.0 mm
Optic diameter	6.0 mm
Optic material	Yellow tinted hydrophobic soft acrylic
Haptic material	PMMA
Haptic angle	3°
A constant	118.4*
AC depth	5.0 mm*
Diopter range	1.0 to 10.0 D (1.0 D increments) 10.0 to 27.0 D (0.5 D increments) 27.0 to 30.0 D (1.0 D increments)

* The values of the A constant and AC depth are for reference only. The precise lens power should be calculated based on the surgeon's own experience.

CAUTION To use this product safely, please read instructions carefully before use.

References
1. Ichikawa K : Jpn *IOL&RS* 20 : 213-220, 2006
2. Ohtani S, *et al* : Jpn *J Ophthalmic Surg* 21 : 303-307, 2008
3. Amano S, *et al* : *Am J Ophthalmol* 137 : 988-992, 2004
4. Holladay JT, *et al* : *J Refract Surg* 18 : 683-691, 2002
5. Miyata A : Jpn *IOL&RS* 21 : 59-62, 2007
6. Tognetto D, *et al* : *J Cataract Refract Surg* 28 : 1211-1216, 2002
7. *in vitro*, in-house data

Specifications may vary depending on circumstances in each country.
Specifications and design are subject to change without notice.

Eye & Health Care
NIDEK CO., LTD.

HEAD OFFICE
(International Div.)
34-14 Maehama,
Hiroishi-cho, Gamagori,
Aichi 443-0038, JAPAN
TEL: +81-533-67-8895
URL: www.nidek.com
[Manufacturer]

TOKYO OFFICE
(International Div.)
3F Sumitomo Fudosan Hongo
Bldg., 3-22-5 Hongo, Bunkyo-ku,
Tokyo 113-0033, JAPAN
TEL: +81-3-5844-2641
URL: www.nidek.com

NIDEK INC.
2040 Corporate Court,
San Jose, CA 95131, U.S.A.
TEL: +1-408-468-6400
+1-800-223-9044
(US Only)
URL: usa.nidek.com

NIDEK S.A.
Ecoparc,
9 rue Benjamin Franklin,
94370 Sucy En Brie,
FRANCE
TEL: +33-1-49 80 97 97
URL: www.nidek.fr

NIDEK TECHNOLOGIES S.R.L.
Via dell'Artigianato,
6/A, 35020 Albignasego (Padova),
ITALY
TEL: +39 049 8629200 / 8626399
URL: www.nidektechnologies.it

NIDEK (SHANGHAI) CO., LTD.
Rm3205,Shanghai Multi
Media Park, No.1027 Chang
Ning Rd, Chang Ning District,
Shanghai, CHINA 200050
TEL: +86 021-5212-7942
URL: www.nidek-china.cn

NIDEK SINGAPORE PTE. LTD.
51 Changi Business Park
Central 2, #06-14,
The Signature 486066,
SINGAPORE
TEL: +65 6588 0389
URL: www.nidek.sg