



A contact lens for monthly replacement with 69% water content, uncoated silicon hydrogel, 2-curve back surface, aspheric edge design and integrated UV-protection.

Concept and design

With the new silicon-hydrogel material „Aerofilcon A“ it has become possible to develop a monthly contact lens with an ideal balance between moisture and oxygen.

“Contaview excellence UV” creates the best conditions to offer a good tolerance for normal as well as protein-containing tear film even if the contact lens is worn for long hours. The high need of oxygen of the cornea is met through high oxygen permeability also in higher powers.

The “Contaview excellence UV” contact lens qualifies not only for clients who still after a long day wish to have the highest level of comfort but also for those who are safety-conscious and demand the best possible performance of their contact lens.

The material

The newly developed “Aerofilcon A” offers, with a DK/t value of 76×10^{-9} , and a low Modulus¹⁾ of 0.42, well balanced qualities that noticeably “soften” the contact lens and therefore provide high tolerance. The integrated UV filter serves as an additional protection against damaging radiation.



Ideal balance between moisture and oxygen

The “Contaview excellence UV” comes without any additional treatment of the surfaces and thus offers a very good and sustainable wettability.

Modulus

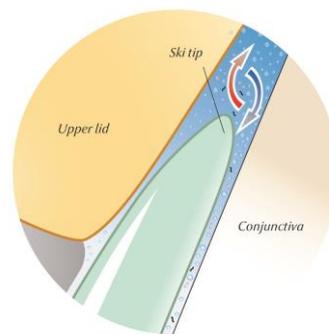
The rigidity of a contact lens is determined through its geometry and through the module of elasticity (E-Module) identified as “Modulus”. The “modulus” is a matter constant indicated as $MPa = N/mm^2$. A high E-Module stands for a “hard” material, a low E-Module for “soft” material. Since the contact lens-industry has no consistent method of testing to determine the module of elasticity, comparison between products is only conditional. First generation silicon-hydrogels show E-Module readings between 1.1 and 1.52 MPa.

The geometry

The newly developed comfort edge-profile merges the two most important properties of an ideal edge-profile in a suitable manner.

This allows a high spontaneous comfort, so far only known from pointy shape edge-profiles.

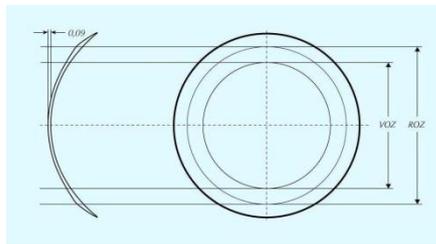
The soft interaction of the lid with the lens when blinking allows an ideal wearing comfort.



Comfort edge profile

Furthermore, an optimal tear film exchange is enabled by the “ski point shape”. The improved under washing increases the supply of nutrients and prevents impressions in the conjunctiva.

By the specially designed zone for stabilization of form on the passage to the border area the handling of the "Contaview excellence UV" is highly facilitated.



Geometry of the rotation-symmetric „Contaview excellence UV“

Technical data

Material FDA group IV (UV-filter, non ionic)	Aerofilcon A (69%)
Handling-tint	light blue-green
Manufacturing method	molding
Water content	69%
Front surface	multi curve spheric
Back surface	2-curve spheric
Edge design	aspheric
Central thickness (with -3.00 dpt)	0.09mm
Oxygen permeability (Dk/t)	76×10^{-9}
Diameter optical zone	$\geq 8.50\text{mm}$

Fitting

The contact lenses should fit centrally, and with lid closure as well as rapid eye movements, even after four hours wearing time, should still move and glide gently.

As additional criteria the following apply:

- Any possible impression of the rim of the contact lens on the conjunctival tissue must be avoided.
- Stable visual acuity
- No air bubble should form under the lens when placed on the eye.
- The rim of the lens should not protrude from the cornea/conjunctiva in any line of vision.

Still the fit of the contact lens should be as flat as possible, centred and comfortable on the eye.

With short central radii but flat corneo scleral profile (CSP grade 4) the base curve of 8.80 would probably lead to success, flat corneal meridians with a steep corneo scleral profile (CSP grade 1) would then rather ask for a base curve of 8.50. The correlation of corneal profile to corneal diameter, however, has to be considered.

Lens care

The CONTOPHARMA "simply one" Universal Comfort Solution, the all-in-one "Universal Solution" or the "tab in one" peroxide care system with the solution and corresponding tablets plus the special contact lens container are recommended by CONTOPHARMA for the care of the "Contaview excellence UV" contact lenses.

The CONTOPHARMA Comfort solutions are outstandingly suited for re-wetting. With the solution "drop&see" for reduced tear production the cell functions of the cornea are supported by balancing the active ingredients.

With the solution "lens&lid" the contact lens surfaces are additionally protected against contamination while wearing.

"Ocusan" available in mono-dose containers that can be re-sealed is of great use for sensitive eyes for it contains no conservation agents

In case of further requirements, the non-abrasive cleansing solution "i-clean!" suits the need of a supplementary cleansing.

Wearing schedule

A monthly replacement plan is recommended for the CONTOPHARMA "Contaview excellence UV" contact lenses.

Warning notice

Contact lenses that absorb UV radiation are not a replacement for other optical aids such as corrective lenses or sunglasses that also provide UV protection. The user should protect him- or herself then from radiation using suitable aids

To date it has not been shown to what extent UV radiation absorbing contact lenses can have an influence on the frequency of ocular changes caused by UV radiation.

Product range, type of packaging, prices:

Product range:

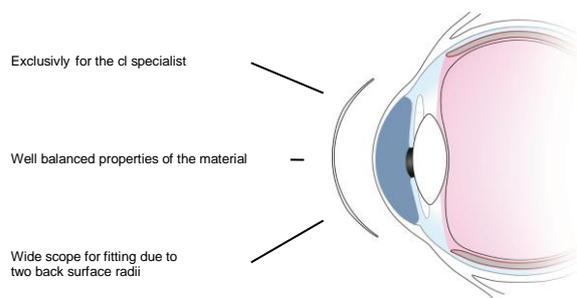
Diameter	mm	14.20
Base curve*	mm	8.50 / 8.80
Power range		
Minus	dpt	sph -0.25 to -6.00 (gradation in 0.25 dpt)
	dpt	sph -6.00 to -12.00 (gradation in 0.50 dpt)
Plus	dpt	sph +0.25 to +5.00 (gradation in 0.25 dpt)
	dpt	sph +5.00 to +8.00 (gradation in 0.50 dpt)

* Base curve 8.80 available as of December 2009.

Packaging: Pack of 6 contact lenses in a blister

CONTAVIEW excellence UV

Ideal balance between moisture and oxygen supply



Literature:

- 1) Fromme Roland: Vergleichende Materialprüfungen von Silikonhydrogel-Kontaktlinsen, Die Kontaktlinse 9/2008