



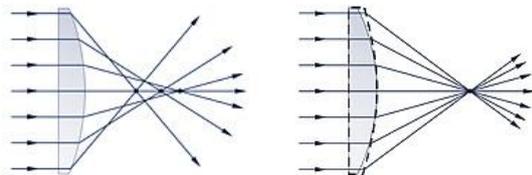
A contact lens for daily replacement with 57% water content, optimized aspheric front surface regarding power and integrated UV protection.

Concept and design

The “aberration control system” allows an improved vision quality when compared with conventional contact lenses. The difference is in the design of the front surface. Over the complete gradient of the aspheric front surface curvature the lens is optimised as to strength and the thickness adjusted to flexibility at the corresponding correction. The goal is not only to correct low order aberrations, i.e., spheric visual defects, as well as astigmatism but also to go a step further – the reduction of the “spheric aberration”.

“Spheric aberration” is well-known. It is a higher order aberration occurring with lenses with spheric surfaces, the peripheral rays being bent more than the central ones the further one is removed from the optic axis, resulting in a reduction of image sharpness (Illus. 1). For the lens wearer it means a loss of image sharpness in twilight and darkness and a loss of contrast. With the design of the aspheric “aberration control” front surface the radius to edge decreases and, in the process, the peripheral rays are bent into the central focal point. (Illus. 2).

This has been realised accordingly for every power. Contact lens wearers can achieve better vision as a result and gain greater image sharpness, especially for large pupils. Emerging presbyopes in particular can profit from increased contrast sensitivity among other things.



Illus. 1: spheric Aberration

Illus. 2: Correction of the spheric aberration

Image source: www-itiv.etec.uni-karlsruhe.de

The “Methafilcon” material used contains a UV blocker and thus offers the eye additional protection against damaging radiation.

Technical data

Material FDA group II (UV-filter, non ionic)	Methafilcon (43%)
Handling-tint	light blue
Manufacturing Method	„ContinuFlow™” molding
Water content	57%
Front surface	aspheric
Back surface	spheric

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

Lens care

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.

The solution “lens&lid” helps protect the CL surfaces against contamination while wearing.

The unpreserved Comfort solution „InnoDrops CP“ is particularly suited for sensitive eyes.

Wearing schedule

A daily replacement plan is recommended for the CONTOPHARMA “Contaview aspheric 1day 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	8.60
Power range		
Minus	dpt	sph -0.50 to -6.00 (gradation in 0.25 dpt)
	dpt	sph -6.50 to -10.00 (gradation in 0.50 dpt)

Packaging:

30-pack:	Pack of 6 blister foils with each showing 5 single packed contact lenses
90-pack:	Pack of 18 blister foils with each showing 5 single packed contact lenses