

Rigid gas permeable contact lenses

appenzeller  
kontaktlinsen®  
passt.

# Excellent AS Excellent MK

Single vision – Multifocal – Bifocal



Classic, practical, excellent:  
You can count on this contact lens.

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www.appenzeller-kontaktlinsen.ch



# Little bowls of plastic...

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It was Mr Feinbloom. The optician was the first one to use PMMA to manufacture contact lenses. That was in the 1930's. A big window to the world opened to millions of people since, thanks to those little bowls of plastic.

We put a great deal of effort into Research & Development to ensure that our contact lenses always meet the latest technological possibilities.

Our Professional Services team advises you competently, personally and patiently. They will answer every question and make sure you get the right contact lens in any case.

## i-SOFT



**3-monthly soft contact lenses**  
My yearly supply of soft contact lenses.  
Per eye.

## Personnelle



**Unifocale – Multifocale – Style de vie numérique**  
My contact lens. As unique as my fingerprint.

## Excellent AS Excellent MK



**Single vision – Multifocal – Bifocal**  
Classic, practical, excellent:  
You can count on this contact lens.

## i-MAP AS



**Single vision – Multifocal – Bifocal**  
High-tech for my everyday life:  
Coping with any situation.

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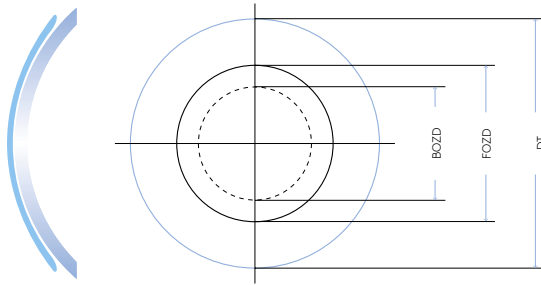
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Rigid gas permeable contact lenses



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# EXCELLENT *AS Progress-N*

## Aspheric, rigid gas permeable contact lens



Excellent AS

### → Front surface design

- Spherical or toric

### → Back surface design

- Spherical or toric, aspheric
- Central back optic zone BOZD up to 15°
- Progressive flattening, the nominal value of the numerical eccentricity is reached at 30°
- Comfort bevel ensures a high wearing comfort and an optimal tear film exchange

### → Design options

Design	Description
VP	Front prism ballast
VPT	Toric Front prism ballast
PT (VP/VPT)	Toric periphery (Front prism ballast/ Toric Front prism ballast)
RT (VP)	Back toric (Front prism ballast)
BT (VP)	Bi-toric (Front prism ballast)
QSD (VP/VPT)	QuadrantSpecificDesign
QSD RT (VP)	
QSD BT (VP)	

### → Product range

Everything that is technically possible. Ask us – we are open for your individual wishes.

### → Materials

See list on page 14.

### → Fitting recommendations

#### Step 1: Choosing the base curve (BC)

##### Up to 1.5 D corneal astigmatism

- Base curve = flattest central corneal radius
- BC in 0.05 mm steps

##### With-the-rule corneal astigmatism

Difference between central corneal radii  $\leq 0.4$  mm

- flattest base curve = flattest central corneal radius
- steepest base curve = steepest central corneal radius
- BC in 0.05 mm steps

Difference between central corneal radii  $> 0.4$  mm

- flattest base curve = flattest central corneal radius
- steepest base curve = steepest central corneal radius +0.1 mm
- BC in 0.05 mm steps

##### Against-the-rule astigmatism $\geq 2$ D

- flattest base curve = flattest central corneal radius + 0.05 mm to 0.1 mm flatter
- steepest base curve = steepest central corneal radius
- BC in 0.05 mm steps

##### Oblique corneal astigmatism $\geq 2$ D

- flattest base curve = flattest central corneal radius
- steepest base curve = steepest central corneal radius
- BC in 0.05 mm steps

#### Step 2: Selecting the n.E.

The n.E of the contact lens should be equal to the mean value of the corneal n.E. (mean of nasal, temporal, superior and inferior) – or the mean value of the flattest corneal meridian – n.E. of the contact lens in 0.05 steps

#### Step 3: Selecting the diameter

##### Corneal fitting

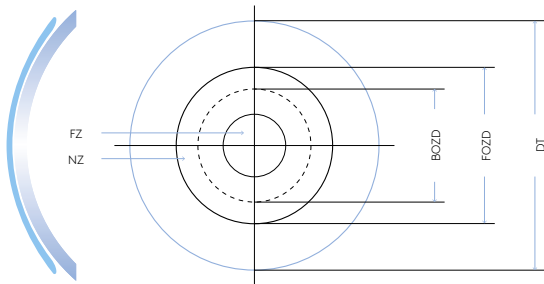
CL DIA = HVID -2.0mm

##### Large diameter fitting:

CL DIA = HVID -1.0mm to 1.3mm

# EXCELLENT *AS Bifo*

Aspheric multifocal,  
rigid gas permeable contact lens



Excellent AS Progress-F

## → Selecting the zone size

Dominant eye distance	Central zone = 4,5 mm
Non-dominant eye	Central zone = 4,3 mm

## → Design options

Design	Description
VP	Front prism ballast
VPT	Toric Front prism ballast
PT (VP/VPT)	Toric periphery (Front prism ballast/ Toric Front prism ballast)
RT (VP)	Back toric (Front prism ballast)
BT (VP)	Bi-toric (Front prism ballast)
QSD (VP/VPT)	QuadrantSpecificDesign
QSD RT (VP)	
QSD BT (VP)	

## → Front surface design

- Correction according to the simultaneous principle
- Multifocal, concentric structure, centre distance
- The central zone contains the far and intermediate correction at a ratio of 75%:25%
- The zone ratio can be freely selected
- Multifocal, spherical or toric
- Centre distance

## → Back surface design

- Spherical or toric, aspheric
- Central back optic zone BOZD up to 15°
- Progressive flattening, the nominal value of the numerical eccentricity is reached at 30°
- Comfort bevel ensures a high wearing comfort and an optimal tear film exchange

## → Product range

Everything that is technically possible. Ask us – we are open for your individual wishes.

## → Materials

See list on page 14.

## → Fitting recommendations

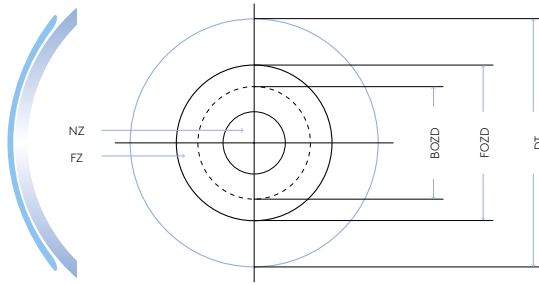
See page 4.



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# EXCELLENT *AS Progress-N*

Aspheric multifocal,  
rigid gas permeable contact lens



Excellent AS Progress-N

## → Selecting the zone size

Dominant eye distance	Central zone = 3.2 mm
Non-dominant eye	Central zone = 3.4 mm

## → Design options

Design	Description
VP	Front prism ballast
VPT	Toric Front prism ballast
PT (VP/VPT)	Toric periphery (Front prism ballast/ Toric Front prism ballast)
RT (VP)	Back toric (Front prism ballast)
BT (VP)	Bi-toric (Front prism ballast)
QSD (VP/VPT)	QuadrantSpecificDesign
QSD RT (VP)	
QSD BT (VP)	

## → Front surface design

- Correction according to the simultaneous principle
- Multifocal, concentric structure, centre near
- The central zone contains the near and intermediate correction at a ratio of 75%:25%
- The zone ratio can be freely selected
- Multifocal, spherical or toric
- Centre near

## → Back surface design

- Spherical or toric, aspheric
- Central back optic zone BOZD up to 15°
- Progressive flattening, the nominal value of the numerical eccentricity is reached at 30°
- Comfort bevel ensures a high wearing comfort and an optimal tear film exchange

## → Product range

Everything that is technically possible. Ask us – we are open for your individual wishes.

## → Materials

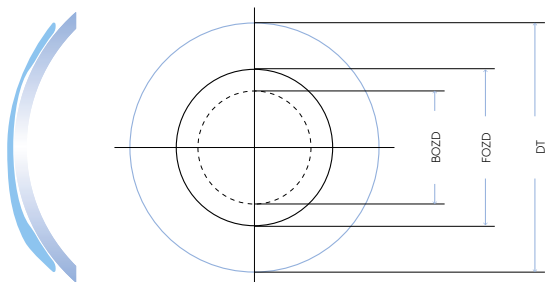
See list on page 14.

## → Fitting recommendations

See page 4.

# EXCELLENT *AS Bifo*

Aspheric bifocal,  
rigid gas permeable contact lens



Excellent AS Bifo

the Excellent AS Bifo is manufactured with a standard prism 1.5 cm/m at 270°. The prism can be changed in power (in 0.25 cm/m steps) and axis (in 1° steps)

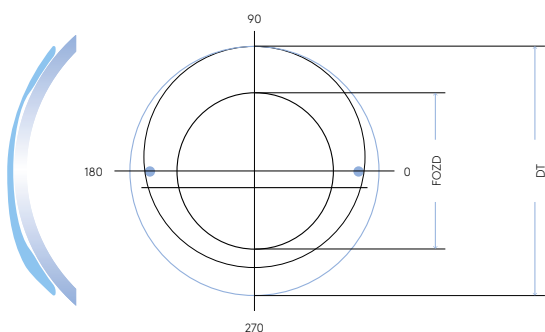
- Bifocal, spherical or toric
- Front prism ballast

## → Back surface design

- Spherical or toric, aspheric
- Central back optic zone BOZD up to 15°
- Progressive flattening, the nominal value of the numerical eccentricity is reached at 30°
- Comfort bevel ensures a high wearing comfort and an optimal tear film exchange

## → Design options

Design	Description
VPT	Toric Front prism ballast
PT (VT)	Toric periphery (Toric front)
RT	Back toric
BT	Bi-toric
QSD (VT)	QuadrantSpecificDesign
QSD RT	
QSD BT	



Excellent AS Bifo: Structure of the front surface

## → Product range

Everything that is technically possible. Ask us – we are open for your individual wishes.

## → Materials

See list on page 14.

## → Indication

- Presbyopia
- For incompatibility of simultaneous – alternating or simultaneous multifocal systems

## → Front surface design

The segment of the near zone of the Excellent AS Bifo is located 1 mm below the geometric centre as standard and can be varied in 0.05 mm steps. Additionally, the inclination of the near segment can be rotated in 1° steps. To measure the inclination or stabilisation, the contact lenses have a marker at 0° and 180°. In order to ensure that the contact lens slides down quickly after blinking,

## → Fitting recommendations

In order for the alternating effect to work properly, the Excellent AS Bifo must show sufficient movement on the eye. It should not be too large in diameter and must not be riding high or have an upper eyelid support. In the reading position – and the associated downward gaze – the Excellent AS Bifo must move slightly upwards.

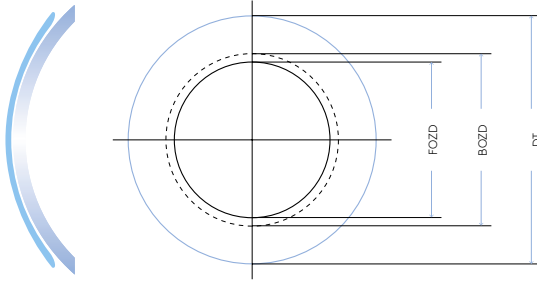
For further fitting recommendations see page 4.



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# EXCELLENT MK

Bi-curve,  
rigid gas permeable contact lens



Excellent MK

## → Front surface design

- Spherical or toric

## → Back surface design

- Spherical or toric, bi-curve
- Central back optic zone BOZD up to 22°, followed by a second, flatter curve
- The flattening of the second, flatter curve is defined by the numerical eccentricity
- Comfort bevel ensures a high wearing comfort and an optimal tear film exchange

## → Design options

Design	Description
VP	Front prism ballast
VPT	Toric Front prism ballast
PT (VP/VPT)	Toric periphery (Front prism ballast/ Toric Front prism ballast)
RT (VP)	Back toric (Front prism ballast)
BT (VP)	Bi-toric (Front prism ballast)

## → Product range

Everything that is technically possible. Ask us – we are open for your individual wishes.

## Materials

See list on page 14.

## → Fitting recommendations

### Step 1: Choosing the base curve (BC)

#### Up to 1.5 D corneal astigmatism

- Base curve = flattest central corneal radius
- BC in 0.05 mm steps

#### With-the-rule corneal astigmatism

Difference between central corneal radii  $\leq 0.4$  mm

- flattest base curve = flattest central corneal radius
- steepest base curve = steepest central corneal radius
- BC in 0.05 mm steps

Difference between central corneal radii  $> 0.4$  mm

- flattest base curve = flattest central corneal radius
- steepest base curve = steepest central corneal radius +0.1 mm
- BC in 0.05 mm steps

#### Against-the-rule corneal astigmatism $\geq 2$ D

- flattest base curve = flattest central corneal radius + 0.05 mm to 0.1 mm flatter
- steepest base curve = steepest central corneal radius
- BC in 0.05 mm steps

#### Oblique corneal astigmatism $\geq 2$ D

- flattest base curve = flattest central corneal radius
- steepest base curve = steepest central corneal radius
- BC in 0.05 mm steps

### Step 2: Selecting the n.E.

The n.E of the contact lens should be equal to the mean value of the corneal n.E. (mean of nasal, temporal, superior and inferior) – or the mean value of the flattest corneal meridian

- n.E. of the contact lens in 0.05 steps

### Step 3: Choosing the diameter

#### Corneal fitting

CL DIA = HVID -2mm

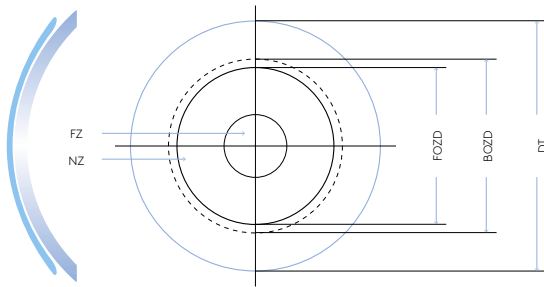
#### Large diameter fitting:

CL DIA = HVID -1.0mm to 1.3mm



# EXCELLENT *MK Progress-F*

Bi-curve, multifocal,  
rigid gas permeable contact lens



Excellent MK Progress-F

## → Selecting the zone size

Dominant eye distance	Central zone = 4,5 mm
Non-dominant eye	Central zone = 4,3 mm

## → Design options

Design	Description
VP	Front prism ballast
VPT	Toric front prism ballast
PT (VP/VPT)	Toric periphery (Front prism ballast/ Toric front prism ballast)
RT (VP)	Back toric (Front prism ballast)
BT (VP)	Bi-toric (Front prism ballast)

## → Product range

Everything that is technically possible. Ask us – we are open for your individual wishes.

## → Materials

See list on page 14.

## → Fitting recommendations

See page 8.

## → Front surface design

- Correction according to the simultaneous principle
- Multifocal, concentric structure, centre distance
- The central zone contains the far and intermediate correction at a ratio of 75%:25%
- The zone ratio can be freely selected
- Multifocal, spherical or toric
- Centre distance

## → Back surface design

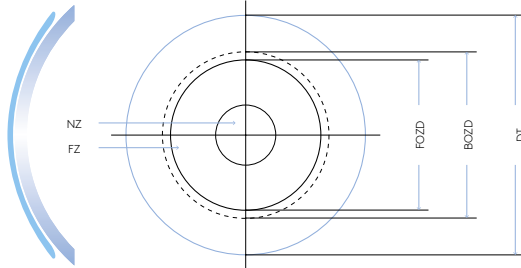
- Spherical or toric, bi-curve
- Central back optic zone BOZD up to 22°, followed by a second, flatter curve
- The flattening of the second, flatter curve is defined by the numerical eccentricity
- Comfort bevel ensures a high wearing comfort and an optimal tear film exchange



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# EXCELLENT *MK Progress-N*

Bi-curve, multifocal,  
rigid gas permeable contact lens



Excellent MK Progress-N

## → Selecting the zone size

Dominant eye distance	Central zone = 3.2 mm
Non-dominant eye	Central zone = 3.4 mm

## → Design options

Design	Description
VP	Front prism ballast
VP	Toric Front prism ballast
PT (VP/VPT)	Toric periphery (Front prism ballast/ Toric Front prism ballast)
RT (VP)	Back toric (Front prism ballast)
BT (VP)	Bi-toric (Front prism ballast)

## → Product range

Everything that is technically possible. Ask us – we are open for your individual wishes.

## → Materials

See list on page 14.

## → Fitting recommendations

See page 8.

## → Front surface design

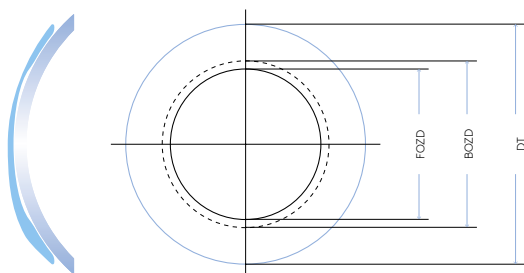
- Correction according to the simultaneous principle
- Multifocal, concentric structure, centre near
- The central zone contains the near and intermediate correction at a ratio of 75%:25%
- The zone ratio can be freely selected
- Multifocal, spherical or toric
- Centre near

## → Back surface design

- Spherical or toric, bi-curve
- Central back optic zone BOZD up to 22°, followed by a second, flatter curve
- The flattening of the second, flatter curve is defined by the numerical eccentricity
- Comfort bevel ensures a high wearing comfort and an optimal tear film exchange

# EXCELLENT *MK Progress Bifo*

Bi-curve, bifocal,  
rigid gas permeable contact lens



Excellent MK Bifo

blinking, the Excellent MK Bifo is manufactured with a standard prism 1.5 cm/m at 270°. The prism can be changed in power (in 0.25 cm/m steps) and axis (in 1° steps).

## → Front surface design

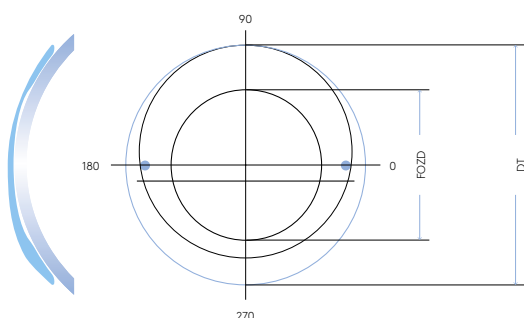
- Bifocal, spherical or toric
- Front prism ballast

## → Back surface design

- Spherical or toric, bi-curve
- Central back optic zone BOZD up to 22°, followed by a second, flatter curve
- The flattening of the second, flatter curve is defined by the numerical eccentricity
- Comfort bevel ensures a high wearing comfort and an optimal tear film exchange

## → Design options

Design	Description
VPT	Toric Front prism ballast
PT (VT)	Toric periphery (Toric Front)
RT	Back toric
BT	Bi-toric



Excellent MK Bifo: structure of the front surface

## → Product range

Everything that is technically possible. Ask us – we are open for your individual wishes.

## → Materials

See list on page 14.

## → Fitting recommendations

In order for the alternating effect to work properly, the Excellent MK Bifo must show sufficient movement on the eye. It should not be too large in diameter and must not be riding high or have an upper eyelid support. In the reading position – and the associated downward gaze – the Excellent MK Bifo must move slightly upwards.

For further fitting recommendations see page 8.

## → Indication

- Presbyopia
- For incompatibility of simultaneous-alternating or simultaneous multifocal systems

## → Front surface design

The segment of the near zone of the Excellent MK Bifo is located 1 mm below the geometric centre as standard and can be varied in 0.05 mm steps. Additionally, the inclination of the near segment can be rotated in 1° steps. To measure the inclination or stabilisation, the contact lenses have a marker at 0° and 180°. In order to ensure that the contact lenses slide down quickly after



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# COMFORT AND SAFETY

Our recommendation for the care regime of rigid gas permeable contact lenses:

Individual products or sets. Compiled to your wishes.

Contact lenses are not just a product. Contact lenses are a process that begins with your consultation. And continues after a successful fitting. Because contact lenses need to be inserted and removed. And because they need to be cleaned and stored. That's why we don't just supply you with contact lenses made to order, but also with know-how made to order. This includes our Professional Service, which is there for you in word and action. It also includes care products and accessories that give your patients the greatest possible feeling of comfort, health and safety.

Clean and rinse, disinfect and store : This is the sequence. And accordingly, we offer you products that are precisely matched to each other in exactly the combination you want. Put together nicely as a set wrapped in thin transparent film, which can be removed without scissors.

Combination example:

- 1x Cleaner plus 1x Saline plus 1x Peroxid plus 1x Enzyme
- 1x Cleaner plus 1x Saline plus 1x All-in-One RGP

See also brochure Appenzeller Kontaktlinsen Comfort and safety

## 1. Cleaning Daily

### Appenzeller Kontaktlinsen® Cleaner

Alcohol-based cleaner

For daily care of rigid gas-permeable contact lenses (also GP-plasma-coated) and soft contact lenses.

## 2. Rinsing Daily

### Appenzeller Kontaktlinsen® Saline

Saline as inserting solution

For all types of contact lenses – except scleral lenses – and for rinsing of soft and rigid gas-permeable contact lenses. Both after cleaning the lens and before putting the lens on the eye.



### 3. Disinfection and storage Daily

#### Appenzeller Kontaktlinsen® Peroxyd

##### Disinfection and neutralisation in 1 hour

The disinfection and neutralisation can be carried out very simply, quickly and a 100% efficiently. Appenzeller Kontaktlinsen make it possible with this peroxide system. For conventional soft lenses, disposable lenses and rigid gas-permeable lenses (RGP)

#### Appenzeller Kontaktlinsen® All-in-One Soft

##### Disinfectant

For all those who do not opt for the peroxide system and its unusually rapid effect (see column on the left): All-in-One Soft – the multipurpose solution with sodium hyaluronate for longer effect, longer wearing time, longer feeling of comfort.

### 4. Protein removal Once a week

#### Appenzeller Kontaktlinsen® Enzyme

##### Intensive cleaning

Protein deposits build up on the lens every day. In addition to the daily neutralisation of the lenses, a weekly protein removal removing is needed when using the peroxide system.





# MATERIAL LIST

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## Rigid gas permeable contact lenses

+++ Very good  
 ++ Good  
 + Sufficient  
 - Not recommendable

	Optimum Classic	Optimum Comfort	Optimum Extra	Optimum Extreme	Optimum Infinite	Boston IV	Boston ES	Boston Equalens	Bosteon EO	Booton XO	Visaflex	PMMA	TLM
Composition	MMA + SI + F	MMA + SI + F	MMA + SI + F	MMA + SI + F	MMA + SI + F	MMA + SI	MMA + SI + F	MMA + SI + F	MMA + SI + F	MMA + SI + F	MMA + SI	MMA	MMA + SI + F
Dk-Value*	26	65	100	125	180	19	18	47	58	100	18	0-0.5	
Refractive index	1.450	1.441	1.431	1.432	1.438	1.469	1.443	1.438	1.429	1.415	1.492	1.490	1.45
Specific gravity (g/cm <sup>3</sup> )	1.190	1.178	1.160	1.150	1.200	1.100	1.220	1.190	1.230	1.270	1.120	1.180	
Wetting angle (°)	12 <sup>***</sup>	6 <sup>***</sup>	3 <sup>***</sup>	6 <sup>***</sup>		17 <sup>**</sup>	52 <sup>**</sup>	30 <sup>**</sup>	49 <sup>**</sup>	49 <sup>**</sup>	25 <sup>**</sup>	27 <sup>**</sup>	
Surface hardness (Shore)	83	79	75	77	81	84	85	82	83	81	86	90	
UV- filter	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	
Tints	Blue	Aqua Blue Blue Green Brown	White Aqua Aqua Blue Green	Aqua Blue Blue Green Red Violet	White Aqua Blue	Blue	Aqua Blue Green	Blue	Aqua Blue Green	Aqua Blue Green Red Violet	Blue Green	White Grey	Red Violet
Resistance to tear film containing proteins	++	++	++	++	++	+	++	++	++	+++	+	+++	++
Resistance to tear film containing lipids	++	++	++	++	++	+++	++	++	+	+	+++	+++	+
Breaking resistance	+++	++	+	+	+	+++	+++	++	+++	++	+++	+++	++
Parameter stability	++	+	+	+	+	+++	+++	++	++	++	+++	+++	++
Overnight wearing (Ortho-K)	-	-	+	+	+	-	-	-	-	+	-	-	-

\* ISO 9913-1, Unit X10<sup>-11</sup> (cm<sup>2</sup>/sec) [mlO<sub>2</sub>/(ml x mmHg)] \*\* Bubble cap method \*\*\* Manufacturer indications

TLM is our trial lens material and cannot be sold

... big window to the world.

appenzeller  
kontaktlinsen®  
passt.

*i*-NIGHT



Orthokeratology at the highest level  
Wear overnight – see during the day:  
Without spectacles, without contact lenses.

Personnelle-KK  
Excellent-KK



Keratoconus contact lenses  
High grade of keratoconus,  
high demand: fits like a mould.

*i*-MAP



For fitting with irregular cornea  
Fits when nothing else will.

*i*-MATRIX



Scleral lenses  
Corneal damage, keratoconus,  
keratoplasty? Still fits.

*pro*ASSIST



Professional support with progressive myopia  
Smart contact lenses instead of thick  
spectacle lenses.



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Rigid gas permeable  
contact lenses

# 10 Reasons Why to choose Appenzeller Kontaktlinsen

Excellent AS  
Excellent MK

## → Fitting success

We do everything we can to understand your wishes and ideas. So that your fitting is a complete success – for you and your patients.

## → Open ears

Our Professional Services team advises you competently, personally and patiently. They will answer every question and make sure you get the right contact lens in any case.

## → Price advantage

We offer you favourable terms of payment. You can get extra benefits if you pay in advance. We will happily let you know about the current conditions on request.

## → Technological advantage

We put a great deal of effort into Research & Development to ensure that our contact lenses always meet the latest technological possibilities.

## → Custom made

Each contact lens is individually made to order for you, so that it matches your specifications a 100%.

## → Guarantee scheme

We take responsibility for our work so you can rely on us and our contact lenses with guarantee. Guarantee period:

- *i*-SOFT 3-monthly lenses: 1 month
- 6-monthly lenses: 2 months
- 12-monthly lenses: 3 months

Broken lens: Return us the lens within the guarantee period and we will replace it. We will credit it on your next invoice accordingly. The date on the delivery note is decisive for the guarantee period.

## → Swiss made

We demand the highest standards of the manufacturing quality of our contact lenses, so that they match your equally high expectations of Swiss made.

## → Right to exchange

We send out our contact lenses with or without the right to exchange, so you can make the best choice for your needs. The option "with right to exchange" gives you financial security: you can order a different lens later. If you do so within the exchange period, you pay only a small excess. The date on the delivery note is decisive for the deadline.

- Soft contact lenses:
  - *i*-SOFT 3-monthly lenses: 1 month
  - 6-monthly lenses: 2 months
  - 12-monthly lenses: 3 months
- Rigid gas-permeable lenses: 3 months

## → Long-term vision

We strive for a lasting business relationship with you, so that you can also count on us in the long term.

## → Reproducibility

We help you keeping your patients satisfied by ensuring that you receive the same lens as before with your repeat order.