



THE QUEEN'S AWARDS  
FOR ENTERPRISE:  
INNOVATION  
2006

ULTRAISION  N

KERASOFT<sup>TM</sup> 3

**SILICONE**  
  
**HYDROGEL**

3 MONTHLY DISPOSABILITY  
FOR KERATOCONUS  
AND POST-GRAFT FITTING

**Product Guide**

## KeraSoft™3 Fitting System

The **KeraSoft™3** fitting system is straight forward and similar to conventional soft lens techniques. The back curves are expressed in Series form (Series A, B, C, D) which correspond to the BCOR values expressed below. For keratoconus initial trial lenses are chosen based on practitioner assessment of the stage of advancement. Keratometry readings may be of limited use if the cornea is distorted. Corneal topography may be useful in assessing the peripheral cornea and indicating which first trial lens to use.

### First Lens Recommendation

Cone Advancement	Series	Equivalent BCOR	Approximate K readings
Advanced	A	8.00	Steeper than 6.20
Moderate - Advanced	B	8.20	6.20-6.60
Moderate	C	8.40	6.60-7.00
Early	D	8.60	7.00-7.40

### KeraSoft™3 Trial Lenses

The 8 trial lenses in the fitting set are available in a range of powers (see table below) to assist in fitting and to give the patient useful vision whilst the lens is settling. If you require a different power (for example a much higher minus or plus lens for post-graft fitting) please contact us. The trial lenses are supplied in the same Silicone Hydrogel (SiH) material as the final lens (Hioxifilcon B11, 49% water material is still available if required)

The trial lenses have a prismatic aspheric toric front surface in the same form as the final prescription lenses. Thus fitting the trial lens gives a very reliable indicator of the final lens performance and resultant visual acuity.

Series	Diameter	BVP
A (8.00)	14.50	-14.00 and -12.00
B (8.20)	14.50	-10.00 and -8.00
C (8.40)	14.50	-6.00 and -4.00
D (8.60)	14.50	-2.00 and Plano

### The SiH Material

Properties	Attributes
Naturally hydrophilic SiH	Excellent wetting
Lathe cut	Wide range of powers
74% water content	High comfort level
DK 60	Increased transmission
Modulus 0.38	Faster settling time
High water retention	Long wear times

### Lens Care

These lenses are compatible with all current chemical and oxidative systems. Care should be taken to follow solution manufacturers' instructions.

## Fitting Procedure for Keratoconic Eyes

<b>Step 1</b>	Fit spherical trial lens according to the recommendation table, matching power as near as possible.
<b>Step 2</b>	Allow to settle for 5 - 10 minutes and then assess initial fit. If there is too little lens movement and large bubbles, go flatter. (NB Try dispelling any bubbles by sliding lens to side and back again) If there is excessive movement, go steeper.
<b>Step 3</b>	When a good fit is achieved, allow to settle for 20-25 minutes and then over-refract to ascertain sphere and cyl.
<b>Step 4</b>	Order Rx diagnostic lenses stating lens series and power used, over refraction (over Rx) and BVD.
<b>Step 5</b>	The patient can wear the diagnostic lenses for up to 90 days, at which point the Rx should be stable and the final 4 pack can be ordered.

## Fitting Considerations and Adjustments

Initially on fitting the lens, bubbles may form. These should settle fairly quickly. If they do not and there is little lens movement, this may indicate a tight fit. In other respects, the fitting assessment is the same as for a normal soft lens – there should be post blink movement of not more than 1mm and the lens should have a good positive return to the central position after manual displacement.

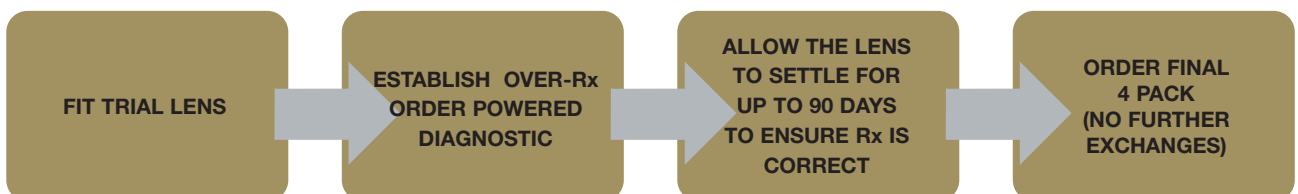
As an alternative to changing series, the lens can also be steepened by going to 15.00mm or flattened by going to 14.00mm. The Horizontal Visible Iris Diameter (HVID) should be taken into account when deciding the final diameter of the lens. For cyls over 3.00DC, a minimum lens diameter of 14.50mm should be used.

## Over Refraction

The Over Refraction should be assessed in the normal way. The final correction should always be measured using standard refractive techniques, detailing sphere, cyl, axis, add and BVD.

## Ordering

Once you have a stable over refraction, order the powered diagnostic. To guarantee the final lens is correct, further diagnostic lenses can be ordered. To ensure the prescription is totally settled, the patient can use the lens for up to 90 days before the final 4 pack is ordered. No exchange is possible on the final 4-pack.



<b>Material</b>	Silicone Hydrogel 74% water content modulus 0.38*
<b>DK</b>	$60 \times 10^{-11}$ (cm <sup>2</sup> /sec)[mlO <sub>2</sub> /(ml x mmHg)]
<b>Base Curves</b>	Series A (8.00), B (8.20), C (8.40), D (8.60)
<b>Diameter</b>	14.00mm 14.50 mm 15.00mm
<b>Design</b>	Front surface Asphere or Aspheric Toric prism ballasted with balanced overall thickness. (Asphere the same as toric but with no cyl) Wavefront Aberration Control
<b>Power Range</b>	Sphere: +30.00DS to -30.00DS** Cylinder: -0.50 to -11.00DC (in 0.25 steps) Axis: 0° to 180° in any axis Add up to + 3.00
<b>Handling Tint</b>	Clear
<b>Wear Modality</b>	3 monthly disposable
<b>Pack Size</b>	4 lens pack

\* Also available in Hioxifilcon B11, 49% Water

\*\* Extended range of powers available to order

#### Simple Fitting System

- **KeraSoft™3** has a simple fitting system, making it accessible to all contact lens practitioners.

#### Powered Diagnostics

- Powered diagnostics give confidence as to final fit and acuity.

#### Improved Comfort

- SiH material ensures greater comfort than RGP lenses and other soft keratoconic lenses.
- Positional stability sound and comfort levels high as the lenses fit well under the lid margins.
- Good oxygen transmission, even in dry conditions

#### Clearer Vision

- Stable on-eye parameters, providing consistent stable vision.
- Patented optics design provides clearer vision in all conditions.
- Enhanced contrast sensitivity, providing better vision in low-light situations.
- Reduced “drape” effect providing clearer vision for distorted cornea, in both Keratoconus and Post-Graft cases.
- Front surface cyl design provides a stable base for fitting and over-refraction, even with cylindrical powers as high as 11.00DC.

#### Wide range of fittings and prescriptions

- Available in +30.00DS to -30.00DS.
- Cylinder power -0.50 to -11.00DC at any axis
- Add up to +3.00.



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