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Hydrophilic IOLs
Manufacturer: Rumex International Ltd, UK

New technologies for clear vision

Benefits of Rumex IOLs:
- Material (co-polymer of hydrophilic and hydrophobic monomers) - high level of biocompatibility with a strong matrix, which exhibits excellent folding and unfolding characteristics
- Angulation 5° eliminates wrinkles&reduces PCO
- Extreme double-square edge around entire optic periphery - 360° barrier helps to prevent PCO - causing cellular migration
- Co-Aspheric
- Minimized glare and unwanted images
- Water content: 25.5 % +/- 2.0%
- Not tacky – Lens does not stick to itself or instruments
- Method of Sterilization: Steam Sterilization at 121 °C
- No vacuoles or glistening, due to the fact that the lenses are lathe-cut and not molded. Molded lenses trap air which will produce vacuoles and glistening.

Co-Aspheric

Every human cornea has some level of asphericity, some positive and some negative. Some IOL’s are intended to correct one or the other with either positive or negative asphericity on one side of the lens. However, this “one size fits all” approach in many cases leaves too little correction or even over correction which leaves the eye in a worse condition than before. Standard non-aspheric IOL’s introduce additional spherical aberrations into the eye. Co-aspheric lenses like Rumex have equal convex and asphericity on both sides of the lens. In this way the eye is neither over nor under corrected, but is left in the natural state without any additional aberrations introduced by the lens itself. For Rumex Hydrophilic IOLs, Center thickness is .51 mm for 10.0 power, .80 for 20.0 power and 1.10 for 30.0 power. The periphery thickness is .25 mm for all powers.

Natural Yellow

Hydro-Sense Aspheric Yellow - Natural Yellow lens is superior to other yellow IOL material because it filters out harmful violet rays protecting the retina without blocking needed blue light still allowing some beneficial violet rays to enter, providing complete natural protection without losing contrast sensitivity or color perception. Recent independent investigations have shown that current blue blocking IOLs cause a loss in contrast sensitivity and color perception. There is nothing more natural than using the same chromophore that nature intended when the natural lens must be replaced.

Hydro-Sense Aspheric

Optic Size : 6.0 mm
Overall Diameter : 12.5 mm
Angulation: 5°
A-Constant :118
AC -Depth: 4.65
Refractive Index: 1.46
Min.incision size: 2.2 mm
IOLs

Hydro-Sense Aspheric Y

Material: Natural Yellow
Optic Size : 6.0 mm
Overall Diameter : 12.5 mm
Angulation: 5°
A-Constant :118
AC -Depth: 4.65
Refractive Index: 1.46
Min.incision size: 2.2 mm
Filter of blue light

Hydro-4 Aspheric

Optic Size : 6.0 mm
Overall Diameter : 11 mm
Angulation: 5°
A-Constant :118
AC -Depth: 4.65
Refractive Index: 1.46
Min.incision size: 1.8 mm

Diopter range: + 10 D to +30.0 D (0.5D increments from 14.5 D to 24.5 D; 1D increments from 10D to 14D and from 25D to 30D)*

* Any lenses below 10.0 D or above 30.0 D are considered custom lenses, can be ordered on request for special price.

Hydrophobic IOLs

Manufacturer: Rumex International Ltd, UK

Rumex has developed a soft hydrophobic acrylic material that incorporates the most desirable UV blocking properties in yellow IOL. Rumex offers you a trouble-free, controlled implantation with highest quality standards. Excellent sharp edge in optic and haptics on both side of the lens, high quality material, unique design and material with less than 0.5% water content are many of the features that make Rumex IOLs unique. Rumex does not manufacture IOLs in the molding injection process, which could create micro vacuoles during and after the molding process.

The Spectral light transmittance curve represents a 20D AquaFree Yellow IOL UV cut off at 10%T is 392nm

Not available in the US
Product and specifications are subject to change without notice
Rumex Hydrophobic IOL AquaFree Yellow is to provide a violet ray filtering (blue filtering) similar to a young natural crystalline lens in human. In chart you can find the visible transmission spectrum of AquaFree Yellow 20D IOL. Rumex Hydrophobic IOL AquaFree Yellow provides additional to the UV filtering also a high energy filtering for short wavelength. This additional feature could provide a better protection of Macula.

**Benefits of Rumex IOLs:**

1) **Negative spherical aberration**

Rumex offers aspheric intraocular lens with negative spherical aberration (-SA). In general, Intraocular lenses can be manufactured with negative spherical aberration (-SA) or free of any spherical aberration (SA=0) or positive spherical aberration (+SA). Spherical aberration has an impact on loss of contrast sensitivity and vision acuity.

Contrast sensitivity is important:

- In low-contrast environments where safety may be at risk (e.g. night driving)
- For seeing clearly in dim light (e.g. low room light, rain, fog, dusk)

In case of pseudophakic eye using spherical IOL (+SA), aspheric IOL (SA=0) or aspheric IOL with negative spherical aberration (-SA) the result is as below:

**The standard spherical IOL with SA>0**

The IOL has a positive power and a spherical surface and thus has positive SA, which when added to the positive aberrations induced by the cornea leaves the eye with a high amount of positive SA.

**Aspheric IOL with SA=0**

The IOL leaves the pseudophakic eye with a modest amount of residual positive SA. This has an impact on contrast sensitivity.

**Aspheric IOL with SA<0**

This kind of IOL’s have a negative spherical aberration (-SA) so that it offsets all or part of positive SA of the average cornea.

Rumex manufactures aspheric IOL with negative spherical aberration (-SA) to offset most of the SA of the cornea to get the best vision acuity and contrast sensitivity with modest depth of focus. The residual SA is 0.044μm at 5 mm cornea diameter size.

<table>
<thead>
<tr>
<th></th>
<th>Spherical Aberration SA</th>
<th>Cornea</th>
<th>Total SA</th>
<th>Image sharpness</th>
<th>Depth of focus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard IOL SA&gt;0</td>
<td>+</td>
<td>+</td>
<td>++</td>
<td>Poor</td>
<td>+</td>
</tr>
<tr>
<td>Aspheric IOL SA=0</td>
<td>0</td>
<td>+</td>
<td>+</td>
<td>Good</td>
<td>+</td>
</tr>
<tr>
<td>Aspheric IOL with SA&lt;0</td>
<td>-</td>
<td>+</td>
<td>0</td>
<td>Excellent</td>
<td>0</td>
</tr>
</tbody>
</table>

In young eyes, the natural lens typically has negative SA and offsets the positive spherical aberration (+SA) of cornea. An old patient can still have 20/20 vision but could have difficulties in the lower contrast condition (foggy). Rumex aspheric IOL is calculated so that the residual spherical aberration in the eye is adjusted for the best vision acuity and good contrast sensitivity.
2) Glass transition temperature

One important point in IOL material is its characteristic glass transition temperature. Rumex IOL material offers an excellent material behavior in operating theatre conditions. At only 11°C, the Rumex material gets soft. Because of this very low transition temperature the Rumex IOL is soft and easy to inject at room temperature. Many surgeons prefer Rumex IOL because of its excellent material behavior. The haptic of IOL is designed to not transmit any forces to the optic part of the lens. The optic part is free of any stress. This contributes to a high stability in the capsule bag.

![Typical range of Tg in hydrophobic acrylic lens material (5°C<Tg>23°C)](image)

3) Chromatic aberration

Chromatic aberration of each IOL material is a significant parameter for image quality and contrast sensitivity. Chromatic aberration is the failure of a lens to focus all colors to the same point. The Abbe number is a significant parameter for the quality of materials. A higher Abbe number is associated with less chromatic aberration (chromatic dispersion) and better optical performance. Rumex IOL has a relatively very good Abbe number of 50 compared to some of other competitors on the market.

![Abbe number](image)
Rumex IOLs are preloaded in an injection system*, suitable for incisions as small as 2.2 mm. Preloaded system represents exceptional reliability for safe and effective lens injection. The compact design and integrated cartridge of the fully single-use system* enables simple, predictable IOL injection.

*by Medicel
SWISS TECHNOLOGY FOR SURGERY

Preparation for Use

1. Add viscoelastic using the port holes
2. Close the flap and lock in position
3. Inject the lens with one continuous motion until the lens is out. Do not stop pushing plunger in the middle of the injection.

Not available in the US
Product and specifications are subject to change without notice
RUMEX is the official distributor of Swiss company Medicel in all countries with the exception of the United Kingdom, Italy, Ireland and Brazil.

The main goal of which company — making eye surgery safer, simpler and more effective and keeping the incision as small as possible.

Over the last ten years, Medicel have significantly contributed to the development of microsurgical techniques. Particularly in the area of lens injection systems, Medicel has set new benchmarks. Today, more than 1 million lenses are injected per year with ACCUJECT™

The new ACCUJECT™ system represents total reliability for safe and effective lens injections. The compact design with integrated cartridge of the fully single-use ACCUJECT™ system enables a simple, predictable loading and positioning of any lens. This allows the surgeon and O.R. personnel to load any lens in the same simple manner. The ACCUJECT™ system is designed for 1- and 3 piece lenses for incision sizes of sub 2.8 to sub 2.2 mm.

NAVJECTT™

The NAVJECT™ system from Medicel represents yet another breakthrough for safe and effective micro-incision cataract surgery. Complications associated with the shortcomings of other lens injection systems are now a thing of the past. NAVJECT™ simplifies the loading of the lens, enables smooth and efficient lens injection and ensures the critical process of lens injection safely.

VISCOJECT™ eco

The VISCOJECT™-eco is a cost effective solution representing all features of the VISCOJECT™ system that has changed the world of Micro Incision Cataract Surgery (MICS)!

The VISCOJECT™-eco system includes the original VISCOJECT™ cartridges which are sterile packed in combination with the VISCOJECT™-eco injector. This low cost solution does not make any compromise on product safety and quality.
SmartVisc and SmartVisc PLUS
Manufacturer: Rumex International Ltd, UK

SmartVisc and SmartVisc PLUS are cohesive viscoelastics based on sodium hyaluronate from biotechnical fermentation and are free of pyrogenic substances. They are characterized by high molecular weight, high pseudoplasticity, and high surface tension. It provides excellent space maintenance, facilitates intraocular lens implantation, and is easily removed.

SmartVisc 1.6% Sodium hyaluronate
SmartVisc+ 3.0% Sodium hyaluronate

Important Features
- No refrigeration necessary - storage 2-25 °C
- Two different viscosities (80 000 & 400 000 mPs)
- Soft coating and protection of endothelial cells
- Clear view of posterior capsule during phacoemulsification
- Soft coating and protection of endothelial cell
- Controlled capsulorrhexis
- Excellent protection against mechanical damages
- Ultrapure Hyaluronic Acid with highest biocompatibility
- Volume: 1 ml
- One cannula

Supreme
Manufacturer: Rumex International Ltd, UK

Supreme is a viscoelastic solution of high molecular weight, highly purified grade of hydroxypropyl methylcellulose 2%, clear, isotonic, sterile, non-inflammatory, and non-pyrogenic in nature. It is used for intraocular injection during anterior segment surgery of the eye.

Supreme is a medical device used in the anterior segment surgery of the eye. It has the following unique characteristics:
- It maintains the depth of the AC of the eye
- It protects the periocular tissues
- Outstanding rheological properties
- Completely transparent
- Simple to remove from the AC
- Totally non antigenic
- Does not contain any proteins likely to cause inflammatory reactions or foreign body reactions
- Does not require refrigeration
- Volume: 2 ml
- One cannula

NEW TECHNOLOGIES FOR CLEAR

Not available in the US
Product and specifications are subject to change without notice
Manufacturer: Rumex International Ltd, UK

Rumex produces a complete line of sponge products used for the management of fluids during ophthalmic procedures. Our PVA and cellulose sponge products are used during cataract and other refractive surgeries. The latest designs of eye spears give a cleaner, wider, and more absorbent eye spear which is ideal for all ophthalmic procedures.

Several speciality PVA products are also available for the care and cleaning of delicate micro instruments which will assist to prolong the life of these expensive instruments.

All our products are manufactured under the strictest management systems and we are committed to ongoing product development.

PVA Spears and Points

Material: 100% PVA
Structure of the material: porous
Shape: lance (planar triangle)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>R1-40400</td>
<td>Orange handle. For cataract surgery. Pack of 5/box: 90</td>
<td></td>
</tr>
<tr>
<td>R2-40405</td>
<td>Orange handle. For cataract surgery. Can be used for LASIK. Pack of 10/box: 180</td>
<td></td>
</tr>
<tr>
<td>R1-40401</td>
<td>For cataract surgery. Pack of 5/box: 90</td>
<td></td>
</tr>
<tr>
<td>R1-40406</td>
<td>For cataract surgery. Pack of 10/box: 180</td>
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Cellulose Spears and Points

Manufacturer: Rumex International Ltd, UK

Material: cellulose
Structure of the material: dense, quickly absorbed
Shape: lance (planar triangle)

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<th>Description</th>
<th>Quantity</th>
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<tr>
<td>R1-40410</td>
<td>Orange handle. For cataract surgery. Pack of 5/box: 100</td>
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<tr>
<td>R1-40415</td>
<td>Orange handle. For cataract surgery. Pack of 10/box: 200</td>
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<tr>
<td>R1-40411</td>
<td>For cataract surgery. Pack of 5/box: 100</td>
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<tr>
<td>R1-40416</td>
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Not available in the US
Product and specifications are subject to change without notice
PVA Sponge Range & Cellulose Eye Spears

Manufacturer: Rumex International Ltd, UK

Corneal Light Shield
R1-40420  7 mm diameter. Material: PVA.
Pack of 1/box: 20

Eye Drains and Wicks
R1-40430  80 cc capacity. Pack of 1/box: 20
R1-40435  400 cc capacity. Pack of 1/box: 10
R1-40431  4 mm x 170 mm. Material: PVA.
Pack of 2/box: 20

Diamond Knife Cleaning Block
R1-40462  Material: PVA. Pack of 1/box: 10

Instrument Wipe
R1-40900  Material: PVA. Pack of 1/box: 20

Lasik Shields
R1-40820  Material: PVA. Pack of 1/box: 20
R1-40821  8 mm diameter 6 mm. Pack of 1/box: 20
R1-40822  4 mm diameter 8 mm. Pack of 1/box: 20

Lasik Drains
R1-40830  42 x 17 x 11.5 mm opening pack of 1/box: 20
R1-40831  40 x 14 x 10.5 mm opening pack of 1/box: 20

Not available in the US
Product and specifications are subject to change without notice
Ultra Purified Silicone Oil - SmartSil®
Manufacturer: Rumex International Ltd, UK

- Maximum interfacial tension and minimum interactions between tissues, cells and endo-tamponades media
- Optimal combination of specific gravity, refractive index and surface tension
- Different viscosity indexes enable easy injection (1000 cSt) and stable temporary tamponade (5000 cSt)

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<tr>
<td>SmartSil 1000</td>
<td>1000 cSt</td>
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<tr>
<td>SmartSil 5000</td>
<td>5000 cSt</td>
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Physicochemical properties
Interfacial tension 43.2 mN/m at 37 °C
Density 0.97 g/cm³
Viscosity 1000 cSt/5000 cSt
Refractive index 1.4
Volatility 0.06%
Polydispersity ≤ 2.33
Elements potentially toxic ≤ 3 ppm
Low molecular weights D4-D9: ≤ 24 ppm
D10-D20: ≤ 4 ppm

Volume and Packaging:
10 ml in a 20 ml luer lock syringe, sterile, double pouch plastic plunger

Viscous fluid injection cannula
Manufacturer: Rumex International Co, USA
Allows injection of viscous fluids such as silicone oil through 23 Ga trocar cannula.
10 mm polyimide tip - 5 per box
12-5248 23 Ga

Not available in the US
Product and specifications are subject to change without notice
Silicone Oil Infusion Systems
Manufacturer: Rumex International Co, USA

Tubing System for the Infusion of Silicone Oil adjustable to:
Ioltech™ Pentasys™
Optikon™ Antares™
Alcon® STTO™
Storz® Premiere™
DORC® Harmony Budget™
12-RTUB-1 Reusable
12-DTUB-1 Disposable

Tubing System for the Infusion of Silicone Oil adjustable to:
DORC® Associate™
Alcon® Constellation®, Accurus™
12-RTUB-2 Reusable
12-DTUB-2 Disposable

Tubing System for the Infusion of Silicone Oil adjustable to:
B&L® Millenium™
Stellaris
12-RTUB-3 Reusable
12-DTUB-3 Disposable

Tubing System for the Infusion of Silicone Oil adjustable to:
Oerlit® Orbit™, Faros®, Os3™
12-RTUB-4 Reusable
12-DTUB-4 Disposable

Iris Retractors
Manufacturer: Rumex International Co, USA

Reusable Iris Retractor
Retractors in Teflon container
Autoclavable
10-5127 1 pack of 6 pcs

Disposable Iris Retractors Most Popular
Sterile
10-5016-1 1 pack of 4 pcs
10-5016-5 5 packs of 4 pcs
10-5067-1 1 pack of 5 pcs
10-5067-6 6 packs of 5 pcs

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