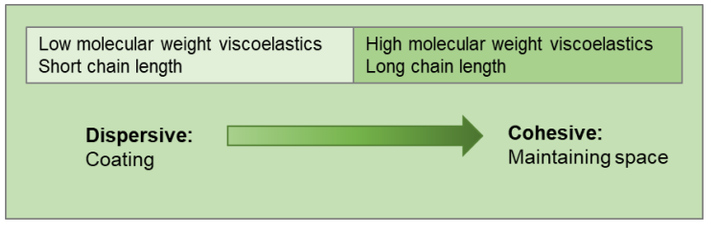
Viscosurgical solutions for your patient‘s needs

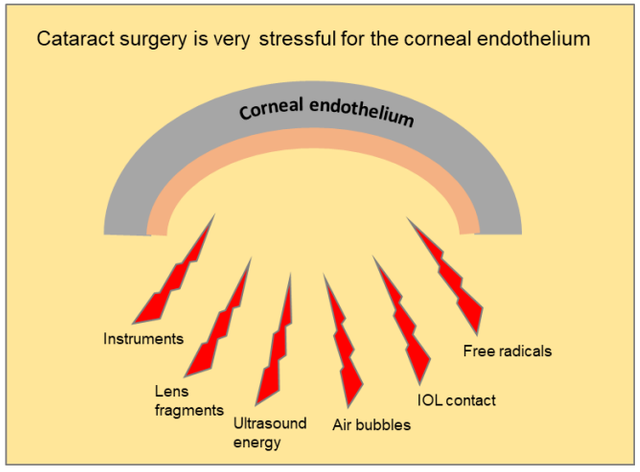
Our cohesive viscoelastics **1.8%** and **2.2% an-bfh** (bio fermented hyaluronate) are able to pressurize the eye and create space, such as during IOL insertion. Due to their cohesiveness, the viscoelastics tend to adhere together, making removal by aspiration easy.

Our dispersive viscoelastic **2% an-viscose** (HPMC) has a lower viscosity and disperses easily in the eye. It optimally coats intraocular structures and tends to stay in place during cataract surgery.

Cohesion depends on elasticity and molecular weight



Protective function of our viscosurgical solutions



Ophthalmic viscosurgical products are highly beneficial for modern cataract surgery:

Process	Benefits
Capsulorhexis	The viscosity creates an ideal environment for anterior chamber maintenance
Phacoemulsification	Maintaining the anterior chamber despite high irrigation flow, covering the endothelium for mechanical protection, showing scavenger effect by capturing the radicals
Irrigation/aspiration	Protecting the endothelium
IOL implantation	Filling the bag and keeping it open for easy IOL implantion
End of surgery	Easily removable (even behind the IOL) to avoid complications

1.8% and 2.2% an-bfh

Bio fermented hyaluronate

The highly purified hyaluronate used for manufacturing of **1.8%** and **2.2% an-bfh** is endotoxin-free (non-pyrogenic) and guarantees high quality viscoelastics with equal length of the polysaccharide molecule chain.

- Excellent depth maintenance of the anterior chamber and the capsular bag
- Protection of the endothelium
- No refrigeration necessary
- Effective protection against mechanical damages
- Easy to inject and remove

1.8% an-bfh stabilizes the anterior chamber and protects the endothelial cells:

- Good maintenance of anterior chamber and space
- Stays in anterior chamber
- Protection of the endothelium
- Good cohesive behavior
- Easy to remove
- Lubricant for IOL implantation
- Maintains pupillary dilatation



2.2% an-bfh creates space in soft tissue and acts as a counter force to vitreous pressure. Because of its higher viscosity, it is retained longer during cataract surgery:

- Highly effective for creating space
- Optimal chamber retention
- Good capsular bag inflation
- Easy to remove
- Good counter force to vitreous pressure



Specification	1.8% an-bfh	2.2% an-bfh
Origin	Bacterial fermentation	Bacterial fermentation
Sodium hyaluronate	1.8%	2.2%
Molecular weight (mill. Da.)	1.2-2.0	1.0-2.1
Viscosity* [mPas]	Ca. 100,000	Ca. 300,000
Osmolality [mOsm/kg]	270-400	270-400
Storage	2° - 25°C	2° - 25°C
pH	6.8-7.4	6.8-7.4
Contents [ml]	2.0	2.0
Shelf life [months]	42	42

an-viscose

2% Hydroxypropylmethylcellulose

A highly dispersive and more liquid, cost-effective viscoelastic.

- Provides excellent protection of the endothelial cells
- Outstanding coating ability
- Good space partitioning
- Easy to remove
- Low viscosity



Specification	an-Viscose
HPMC	2%
Viscosity* [mPas]	Ca. 4,000-5,000
Osmolality [mOsm/kg]	270-400
Storage	2° - 25°C
pH	6.8-7.5
Contents [ml]	2.0
Shelf life [months]	60

Long-chained, ultrapure hyaluronate gel for dry eyes

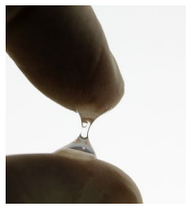
an-HyPro

1.2% hyaluronate with amino acids

The linear long-chained, ultrapure hyaluronate and the amino acids equilibrate the natural tear film, provide a temporary film that coats the cornea and compensates for mucin deficiency.

Delivered in a user-friendly, multi-dose bottle.





an-HyPro is composed of only natural substances and is preservative-free:

- **1.2% Hyaluronate**
- **0.1% L-Glycine**
- **0.075% L-Proline**
- **0.01% L-Lysine**
- **0.01% L-Leucine**

and other ingredients

- Long-chained hyaluronate is a film former that improves the lubrication of the eyes with damaged tear films and prevents epithelial damage caused by mechanical stress
- Its viscoelastic profile, which is close to the natural tear film, can support the treatment of the recurrent corneal erosion
- The waterbinding capacity and long retention time substitutes the tear film
- The supplemented amino acids result in the high elasticity of the film and the long retention time on the cornea

Indications:

- Dry eye
- Injured cornea in order to avoid mechanical stress to the cornea
- After eye surgery on the cornea and conjunctiva because the incision cuts nerves which interrupts the blinking reflex



The high viscosity allows for fewer applications!

Your solution for lid augmentation

an-cbfh 2.4

Cross-linked hyaluronate

Skin filler for the effective treatment of entropion

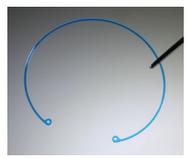


- The unique core of highly cross-linked hyaluronate, surrounded by long chains of non cross-linked hyaluronate
- Degradation of hyaluronate can be forced by hyaluronidase
- Prolonged treatment effects
- Free of animal components
- Excellent biocompatibility
- Not intended for intraocular use

Other useful products for cataract surgery

an-blue
Sterile trypan blue solution





an-CTR
Capsular tension rings for stabilization of the capsular bag and delaying PCO



alexos3
Portable phacoemulsification system for small and large animals

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an-vision

Hyaluronate & HPMC solutions for your ophthalmic patients

Viscoelastics

Our highly purified **ophthalmic viscoelastic products an-bfh** and **an-viscose** are produced in certified, state-of-the-art production sites in Germany either from sodium salt of hyaluronic acid or from methylcellulose and are free of animal tissue.

The superior viscosurgical solutions are valued tools for:

- Reducing trauma during the surgical procedure
- Maintaining the anatomical shape of the ocular structure
- Providing space to perform meticulous surgery in extremely fragile structures
- Guaranteed excellent visability with high transparency



Eye gel

Our best-selling product **an-HyPro** eye gel ensures a temporary, liquid coating of the cornea:

- High viscoelasticity due to linear, long-chained hyaluronate
- High viscosity allows for fewer applications
- Preservative free



See all our products at www.an-vision.com