

INTRAOCULAR LENS MANUFACTURER CATARACT & REFRACTIVE SURGERY

Made in France



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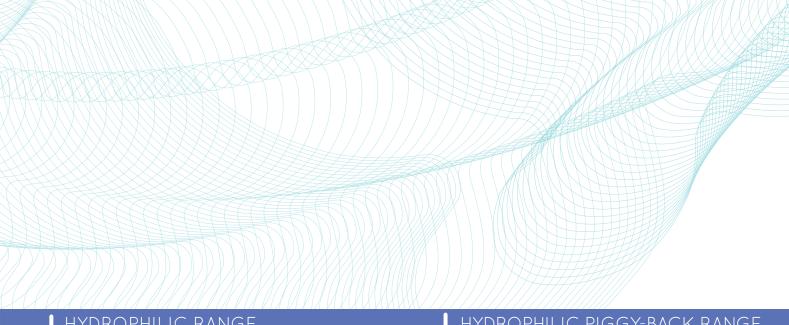


VISCOELASTIC

CRISTAVISC c®

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HYDROPHILIC RANGE

HYDROPHILIC PIGGY-BACK RANGE





LOKI









WHO ARE WE?

Founded in 1994, CRISTALENS SA initially distributed medical devices for cataract surgery. In 2005, the company created its own production unit in Lannion for hydrophilic and hydrophobic intraocular lenses for cataract and refractive surgery, becoming the **first manufacturer of intraocular lenses in France.** In 2008, CRISTALENS INDUSTRIE developed a new hydrophobic raw material that allows for micro-incisions under 2.0 mm.

By choosing CRISTALENS INDUSTRIE

you are collaborating with a French manufacturer that has **complete control of the manufacturing process:** from raw material production to final product packaging, with three key words and core values:

PATIENT SAFETY

INNOVATION

AVAILABILITY

Cristalens and INNOVATION



CRISTALENS INDUSTRIE received the Research and Innovation Prize in 2013 for creating its new hydrophobic material for its preloaded micro-incision monofocal and toric lenses.

CRISTALENS INDUSTRIE strives to provide its clients with the best and most advanced products in the industry. Thanks to close collaboration with the best French universities and highly qualified employees, CRISTALENS INDUSTRIE is at the cutting edge of technological innovation.



Cristalens and

QUALITY

CRISTALENS INDUSTRIE is NF EN ISO 13485 certified. Its intraocular lenses are CE 0459.



CRISTALENS INDUSTRIE makes every effort to ensure optimum protection for the patient.

CRISTALENS INDUSTRIE only works with ISO-certified suppliers that are respected in the ophthalmic industry. Its automated and robotized manufacturing process optimizes the quality of its intraocular lenses.

Cristalens and **PRODUCTION**



Always striving to stay autonomous and responsive, CRISTALENS INDUSTRIE has complete control over its manufacturing:

- raw material production
- design
- cryo-machining
- 100% optical and cosmetic control
- logistics

Cristalens and **DISTRIBUTION**



CRISTALENS's products are distributed on all continents, in more than 50 countries. In 2020, CRISTALENS created its first subsidiary: CRISTALENS SL in Spain.

Its «Regulatory Affairs» and «Export» departments fully master the challenges a distributor may face in terms of logistics and marketing support.







ARTIS® MONOFOCAL



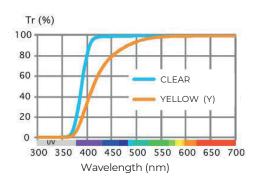
PRELOADED HYDROPHOBIC LENSES

TECHNICAL SPECIFICATIONS

Lens type For implantation in the capsular bag 6.15 mm (from 0.0D to +9.5D) **Optic diameter** 6.00 mm (from +10.0D to +25.0D) 5.80 mm (from +25.5D to +35.0D) 11.00 mm (from 0.0D to +9.5D) **Overall diameter** 10.79 mm (from +10.0D to +25.0D) 10.50 mm (from +25.5D to +35.0D) One-piece square edge on 360° Design Monofocal Optic design Aspherical with negative spherical aberration to partly correct corneal spherical aberration **Angulation Material** Hydrophobic CBK 1.8 / CBJ 1.8 from Cristalens **Dioptric powers** From 0.0D to +35.0D by 0.5D 119.3 Ultrasound biometry **Estimated A-Constant (SRK-T)** 119.7 Interference laser biometry Suggested anterior chamber depth 5.77 mm Ultrasound biometry (ACD) 6.03 mm Interference laser biometry **Refractive index** 1.54 Sterilization Ethylene oxide Injection system Preloaded system

Transmission spectrum

Recommended incision size





€ 0459

2.0 mm



EAZ-Y®

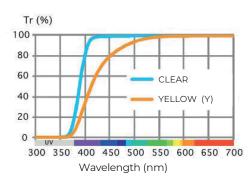


PRELOADED HYDROPHOBIC LENSES

TECHNICAL SPECIFICATIONS

Lens type For implantation in the capsular bag 6.15 mm (from 0.0D to +9.5D) **Optic diameter** 6.00 mm (from +10.0D to +25.0D) 5.80 mm (from +25.5D to +35.0D) 11.78 mm (from 0.0D to +9.5D) **Overall diameter** 11.50 mm (from +10.0D to +35.0D) Design One-piece square edge on 360° Monofocal Optic design Aspherical with negative spherical aberration to partly correct corneal spherical aberration **Angulation** 5° **Material** Hydrophobic CBJ 1.8 from Cristalens **Dioptric powers** From 0.0D to +35.0D by 0.5D 119.3 Ultrasound biometry **Estimated A-Constant (SRK-T)** 119.7 Interference laser biometry Suggested anterior chamber 5.77 mm Ultrasound biometry depth (ACD) 6.03 mm Interference laser biometry **Refractive index** 1.54 **Sterilization** Ethylene oxide Injection system Preloaded system **Recommended incision size** 2.0 mm

Transmission spectrum





€ 0459



ARTIS® BIFOCAL



• PRELOADED HYDROPHOBIC LENSES

Lens type	For implantation in the capsular bag
Optic diameter	6.00 mm (from +10.0D to +25.0D) 5.80 mm (from +25.5D to +35.0D)
Overall diameter	10.79 mm (from +10.0D to +25.0D) 10.50 mm (from +25.5D to +35.0D)
Design	One-piece square edge on 360°
Optic design	Bifocal Aspherical with negative spherical aberration to partly correct corneal spherical aberration Diffractive pattern on the anterior face, biconvex
Angulation	5°
Material	Hydrophobic CBK 1.8 from Cristalens
Dioptric powers	From +10.0D to +35.0D by 0.5D
Additions (at IOL plane)	+2.50D / + 3.00D
Estimated A-Constant (SRK-T)	119.3 Ultrasound biometry 119.7 Interference laser biometry
Suggested anterior chamber depth (ACD)	5.77 mm Ultrasound biometry 6.03 mm Interference laser biometry
Refractive index	1.54
Sterilization	Ethylene oxide
Injection system	Preloaded system
Recommended incision size	2.0 mm







ARTIS® TORIC



• PRELOADED HYDROPHOBIC LENSES

Lens type	For implantation in the capsular bag
Optic diameter	6.00 mm (from +10.0D to +25.0D) 5.80 mm (from +25.5D to +35.0D)
Overall diameter	10.79 mm (from +10.0D to +25.0D) 10.50 mm (from +25.5D to +35.0D)
Design	One-piece square edge on 360°
Optic design	Monofocal Aspherical with negative spherical aberration to partly correct corneal spherical aberration Toricity and marks on the posterior face, biconvex
Angulation	5°
Material	Hydrophobic CBK 1.8 from Cristalens
Dioptric powers (spherical equivalent)	From +10.0D to +35.0D by 0.5D
Cylinder powers	+0.75D / +1.50D / +2.25D / +3.00D +3.75D / +4.50D / +5.25D / +6.00D
Estimated A-Constant (SRK-T)	119.3 Ultrasound biometry 119.7 Interference laser biometry
Suggested anterior chamber depth (ACD)	5.77 mm Ultrasound biometry 6.03 mm Interference laser biometry
Refractive index	1.54
Sterilization	Ethylene oxide
Injection system	Preloaded system
Recommended incision size	2.0 mm

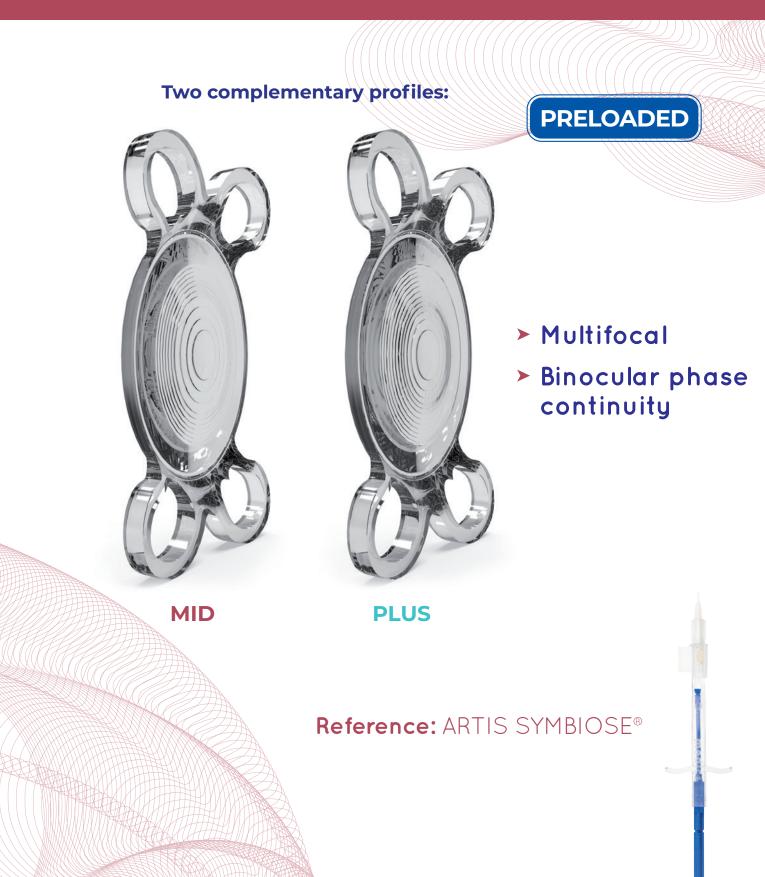






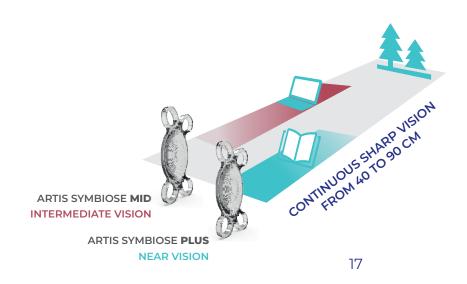


ARTIS MULTIFOCAL



• PRELOADED HYDROPHOBIC LENSES

Lens type	For implantation in the capsular bag
Optic diameter	6.00 mm
Overall diameter	10.79 mm
Design	One-piece square edge on 360°
Optic design	Diffractive multifocal extended depth of focus with binocular complementarity Aspherical with negative spherical aberration to partly correct corneal spherical aberration Diffractive pattern on the anterior face, biconvex
Angulation	5°
Material	Hydrophobic CBK 1.8 from Cristalens
Dioptric powers	From +10.0D to +35.0D by 0.5D
Additions (at IOL plane)	MID: Superior intermediate vision - PLUS: Superior near vision
Estimated A-Constant (SRK-T)	119.3 Ultrasound biometry 119.7 Interference laser biometry
Suggested anterior chamber depth (ACD)	5.77 mm Ultrasound biometry 6.03 mm Interference laser biometry
Refractive index	1.54
Sterilization	Ethylene oxide
Injection system	Preloaded system
Recommended incision size	2.0 mm









ARTIS® MULTIFOCAL TORIC

Two complementary profiles:







- Multifocal
- ➤ Toric
- Binocular phase continuity

MID

PLUS

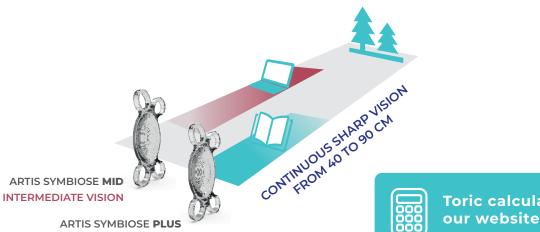
Reference: ARTIS SYMBIOSE®



• PRELOADED HYDROPHOBIC LENSES

TECHNICAL SPECIFICATIONS

Lens type	For implantation in the capsular bag
Optic diameter	6.00 mm
Overall diameter	10.79 mm
Design	One-piece square edge on 360°
Optic design	Diffractive multifocal extended depth of focus with binocular complementarity and variable toricity Aspherical with negative spherical aberration to partly correct corneal spherical aberration Diffractive pattern on the anterior face, toricity and marks on the posterior face, biconvex
Angulation	5°
Material	Hydrophobic CBK 1.8 from Cristalens
Dioptric powers (spherical equivalent)	From +10.0D to +35.0D by 0.5D
Additions (at IOL plane)	MID: Superior intermediate vision - PLUS: Superior near vision
Cylinder powers	+0.75D / +1.50D (+2.25D / +3.00D / +3.75D available upon request)
Estimated A-Constant (SRK-T)	119.3 Ultrasound biometry 119.7 Interference laser biometry
Suggested anterior chamber depth (ACD)	5.77 mm Ultrasound biometry 6.03 mm Interference laser biometry
Refractive index	1.54
Sterilization	Ethylene oxide
Injection system	Preloaded system
Recommended incision size	2.0 mm



NEAR VISION



C€ 0459

Toric calculator available on our website www.cristalens.fr





CLARÉ 22

LUCIS

CRISTAL

HYDROPHILIC PIGGY-BACK RANGE

REVERSO MONOFOCAL 28

REVERSO MULTIFOCAL 30



CLARÉ®



Monofocal

Reference: CLARÉ®

• HYDROPHILIC LENSES

Lens type	For implantation in the capsular bag
Optic diameter	6.00 mm (from +10.0D to +24.5D) 5.70 mm (from +25.0D to +30.0D)
Overall diameter	11.00 mm (from +10.0D to +14.5D) 10.75 mm (from +15.0D to +24.5D) 10.50 mm (from +25.0D to +30.0D)
Design	One-piece square edge on 360°
Optic design	Monofocal Aspherical with negative spherical aberration to partly correct corneal spherical aberration Biconvex
Angulation	8°
Material	Hydrophilic Benz 25 made of hydrophilic and hydrophobic copolymers
Dioptric powers	From +10.0D to +30.0D by 0.5D
Estimated A-Constant (SRK-T)	118.0 Ultrasound biometry 118.5 Interference laser biometry
Suggested anterior chamber depth (ACD)	4.96 mm Ultrasound biometry 5.25 mm Interference laser biometry
Refractive index	1.46
Sterilization	Steam
Recommended injection system	Single-use injector
Recommended incision size	1.8 to 2.2 mm







LUCIS®



• HYDROPHILIC LENSES

Lens type	For implantation in the capsular bag
Optic diameter	6.00 mm
Overall diameter	11.00 mm (from - 9.0D to +9.5D) 10.50 mm (from +10.0D to +30.0D)
Design	One-piece
Optic design	Monofocal Spherical
Angulation	10°
Material	Hydrophilic Benz 25 made of hydrophilic and hydrophobic copolymers
Dioptric powers	From -9.0D to +30.0D by 0.5D
Dioptric powers Estimated A-Constant (SRK-T)	
	From -9.0D to +30.0D by 0.5D 118.0 Ultrasound biometry
Estimated A-Constant (SRK-T) Suggested anterior chamber depth	From -9.0D to +30.0D by 0.5D 118.0 Ultrasound biometry 118.5 Interference laser biometry 4.96 mm Ultrasound biometry
Estimated A-Constant (SRK-T) Suggested anterior chamber depth (ACD)	From -9.0D to +30.0D by 0.5D 118.0 Ultrasound biometry 118.5 Interference laser biometry 4.96 mm Ultrasound biometry 5.25 mm Interference laser biometry
Estimated A-Constant (SRK-T) Suggested anterior chamber depth (ACD) Refractive index	From -9.0D to +30.0D by 0.5D 118.0 Ultrasound biometry 118.5 Interference laser biometry 4.96 mm Ultrasound biometry 5.25 mm Interference laser biometry







CRISTAL®



• HYDROPHILIC LENSES

Lens type	For implantation in the capsular bag
Optic diameter	6.00 mm
Overall diameter	13.00 mm
Design	One-piece square edge on 360°
Optic design	Monofocal Aspherical with negative spherical aberration to partly correct corneal spherical aberration Biconvex
Angulation	10°
Material	Hydrophilic Benz 25 made of hydrophilic and hydrophobic copolymers
Dioptric powers	From +10.0D to +30.0D by 0.5D
Estimated A-Constant (SRK-T)	118.0 Ultrasound biometry 118.5 Interference laser biometry
Suggested anterior chamber depth (ACD)	4.96 mm Ultrasound biometry 5.25 mm Interference laser biometry
Refractive index	1.46
Sterilization	Steam
Recommended injection system	Single-use injector
Recommended incision size	2.2 mm







REVERSO® MONOFOCAL



HYDROPHILIC PIGGY-BACK LENSES

TECHNICAL SPECIFICATIONS

Lens type For implantation in the ciliary sulcus, in pseudophakic patients Implantation location Ciliary sulcus **Body diameter** 6.50 mm **Overall diameter** 13.80 mm Design One-piece round edge on 360° Monofocal Optic design Spherical Convex anterior face, concave posterior face **Angulation** 10° **Material** Hydrophilic Benz 25 made of hydrophilic and hydrophobic copolymers **Dioptric powers** From -6.0D to +6.0 D by 0.5D **Estimated A-Constant** Non-applicable **Refractive index** 1.46 Sterilization Steam **Recommended injection system** Single-use injector **Recommended incision size** 1.8 to 2.2 mm









REVERSO® MULTIFOCAL



• HYDROPHILIC PIGGY-BACK LENSES

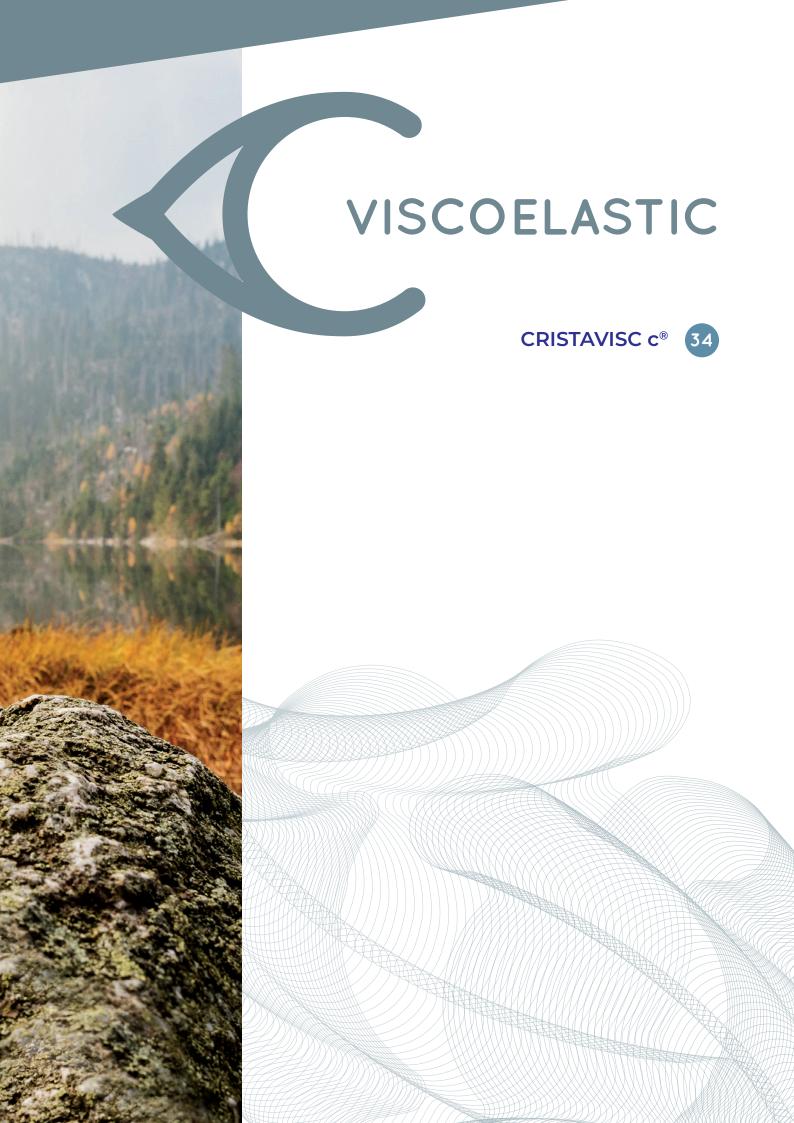
Lens type	For implantation in the ciliary sulcus, in pseudophakic patients
Implantation location	Ciliary sulcus
Body diameter	6.50 mm
Overall diameter	13.80 mm
Design	One-piece round edge on 360°
Optic design	Multifocal Spherical Convex anterior face, diffractive pattern on the concave posterior face
Angulation	10°
Material	Hydrophilic Benz 25 made of hydrophilic and hydrophobic copolymers
Multifocal specifications	Light distribution: 65% far to 35% near Step apodization: from \emptyset 3.0 mm to \emptyset 4.5 mm
Dioptric powers	From -3.0D to +3.0D by 0.5D
Additions (at IOL plane)	+1.50D / +2.00D / +2.50D / +3.00D / +3.50D
Estimated A-Constant	Non-applicable
Refractive index	1.46
Sterilization	Steam
Recommended injection system	Single-use injector
Recommended incision size	1.8 to 2.2 mm













CRISTAVISC c®



- ➤ Cohesive with mannitol
- Average viscosity of 170 Pa.s
- Manufactured by the Vivacy Laboratories

Reference: CRISTAVISC c®

VISCOELASTIC

TECHNICAL SPECIFICATIONS

Eur. Ph. compliant, quality hyaluronic acid for intraocular use that is injectable and biofermentation in origin	_
Each box contains	1 syringe - 1 x 27G 7/8" canula - 1 leaflet - 10 traceability labels
Glass syringe, Pharmaceutical grade, Class I, latex free, prefilled	At 1 ml
NaHa concentration	15.5 mg/g
Molecular weight of the hyaluronic acid in the final sterile product	2.2 MDa (mean value)
Phosphate Buffer pH 7.2	q.s. 1g
With natural antioxidant	Hyaluronic acid with mannitol
Isoosmolarity	310 mOsm (mean value)
рН	6.8 – 7.6
Viscosity at 0,01s-1 shear rate	170 Pa.s (170 000 cPoise) (mean value)
Apyrogen (no endotoxins)	< 0.5 EU/g
Sterile (gel by autoclave – second packaging with blister, sterilization with ethylene oxide)	SAL 10 ⁻⁶ (Sterility Assurance Level)
Proteins	< 20 ppm
Storage	2°C to 25°C for up to 36 months
Medical Device	Class IIb
Biocompatible according to	ISO 10993 and ISO 15798
Quality Management System certified	ISO 13485

INDICATIONS

Anterior segment surgery

Protection of the corneal endothelium and maintenance of the intraocular space

See «Description» in the CRISTAVISC c® instructions for use for more information











LOKI®



PRELOADED

- Hydrophobic
- Monofocal
- For veterinary use

Reference: LOKI® PL



• FOR VETERINARY USE

Lens type	For implantation in the canine capsular bag
Optic diameter	6.50 mm
Overall diameter	12.00 mm - 13.00 mm - 14.00 mm
Design	One-piece
Optic design	Monofocal Aspherical with negative spherical aberration to partly correct corneal spherical aberration Biconvex
Angulation	5°
Material	Hydrophobic CBK 1.8 from Cristalens
Dioptric power	+41.0D
Refractive index	1.54
Sterilization	Ethylene oxide
Injection system	Preloaded system
Recommended incision size	3.0 mm









