20 YEARS ANNIVERSARY

sonat-ojans.com

IOLstar
MATERIALS AND TECHNOLOGIES

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ENLARGE YOUR SIGHT

Premium IOLs;
Unique Hydrophobic Raw Material and
State of Art Production Process

IOLstar
MATERIALS AND TECHNOLOGIES

ENLARGE YOUR SIGHT ENLARGE YOUR SIGHT ENLARGE YOUR SIGHT ENLARGE YOUR SIGHT ENLARGE YOUR SIGHT ENLARGE YOUR SIGHT ENLARGE YOUR SIGHT ENLARGE YOUR SIGHT
Gain design benefits of IOLStar original lenses, without compromising on proven stability and optical performance
ENLARGE
YOUR SIGHT
20 YEARS
ANNIVERSARY

UNIQUE HYDROPHOBIC RAW MATERIAL

IOLstar
MATERIALS AND TECHNOLOGIES

IOlstar is one of the company who is developing uv curable bio polymers, unique production equipments, semi-finished IOL products and finished IOL products for valuable customers.

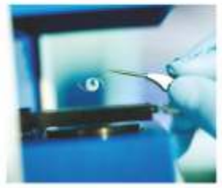
IOlStar has a state-art production line including ISO 7 (Class 10,000), ISO 8 (Class 100,000), ISO 5 (Class 100) Clean rooms.

IOLstar R&D team always focus to improve product range and extra pure new Intraocular Lens (IOL) monomers for industry.

Our expertise is uv curable polymers and unique production methodology to make polymer optics.

IOLstar applies quality management system that fully complies with domestic and international laws, standards and regulations. IOLstar continuously maintains compliance with the prevailing requirements of EN ISO 13485, 93/42/EEC and new MDR rules.

We are committed to improving patient outcomes and enhancing the quality of life for people around the world through its products and services.



Certificates

WE DESIGN AND PRODUCE
PREMIUM IOLS AND
RAW MATERIALS
WITH HIGH BENEFITS

IOLstar
MATERIALS AND TECHNOLOGIES

20 YEARS ANNIVERSARY

Quality

IOLSTAR always works on maintaining and further strengthening the confidence of the market and the customers.

Every members of the IOLSTAR team identify themselves with the company's goals, are totally committed to these targets, and the realization of their individual and organizational pushes aimed at implementing them.

The systems installed and operated at IOLSTAR target the most efficient implementation of the company's mission. The efficiency of the system enables us to keep track of customers' feedback and the latest advances in science, as well as the prompt realization and implementation of the company's innovations based on this.

IOLSTAR 's quality management system fully complies with domestic and international laws, standards and regulations. IOLSTAR continuously maintains compliance with the prevailing requirements of EN ISO 13485:2016, 93/42/EEC and for MDR transition process.

IOLSTAR SEMI-FINISHED PRODUCTS

Secure and Safety Products

- With Millions of Intraocular Lenses (IOLs) produced and sold out over all the world.
- Premium IOLs made from specific high quality IOLStar Hydrophobic raw material.
- Unique production technology and raw materials offers the superior level of safety, comfort and long- term reliability.

100 % Hydrophobic

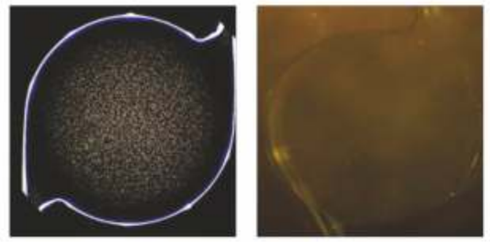
- 100 % Biocompatible raw material is suitable for manufacturing of IOLs and different kind of polymer implants.
- 100 % Hydrophobic IOLs never accept water inside -in chemical structure.
- 100 % Hydrophobic IOLs are ready for packaged in dry state.
- 100 % Hydrophobic IOLs have a cross-link structure and do not dissolve in any solvent.
- 100 % Hydrophobic IOLStar IOLs refractive index is 1.51 and allows to the best optical design.
- UV Block under 379 nm (blue block raw material is also available).

Biocompatibility[1]

- Fully biocompatible IOLStar raw material is exhibit the following features;
- Elicits no foreign body reactions.
- Accepted by the surrounding tissues.
- Has good compatibility with the capsular bag.
- Provides satisfactory vision over the lifetime of the patient without any further intervention.

Glistening Free[2]

- Unique composition of IOLStar hydrophobic raw materia l allows uniform hydration of specific sites to have controlled water uptake and resistance to glistening formation.



[1] Biocompability of IOLStar test reports available according to ISO-10993.
[2] Glistening study test report is available and material is called as "Glistening free" product.

OPERATIONS STEPS	Option-A (Optical Disc)	Option-B (Semi-Finished Bulk)	Option-C (Non-Sterile)	Option-D (Sterile)
OPTICAL SURFACE - BACK	S	S	S	S
OPTICAL SURFACE -FRONT	S	S	S	S
HAPTIC MILLING	C	S	S	S
DEBLOCKING	C	S	S	S
CHEMICAL EXTRACTION	C	S	S	S
QUALITY CONTROL	C	C	S	S
MEASUREMENTS	C	C	S	S
LABELING	C	C	S	S
STERILE PACKAGING	C	C	S	S
EO STERILIZATION	C	C	C	S
SECONDARY PACKAGING	C	C	C	C

S: Suppliers Operations C: Customer Operations

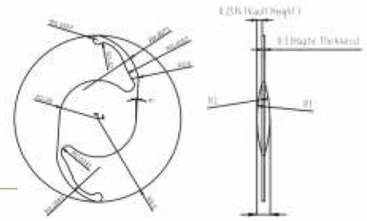
OPTION - A (Optical Disc)

- Ready aspherical optical design
- Custom made optical design is available
- Fixed haptic thickness is 0.30 mm, custom haptic thickness is available upon your request.
- Send on PP holder to support easy milling procedures
- Pure Product; trainings and custom made chemical extraction equipment will be supplied by IOLstar

OPTICAL PROPERTIES	IOLStar Design	Customer Design
FRONT SURFACE	Aspherical	Any
BACK SURFACE	Spherical	Any

OPERATION STEPS	Supplier Operations	Customer Operations
OPTICAL SURFACE - BACK	✓	
OPTICAL SURFACE - FRONT	✓	
HAPTIC MILLING		✓
DEBLOCKING		✓
CHEMICAL EXTRACTION		✓
QUALITY CONTROL		✓
MEASUREMENTS		✓
LABELING		✓
STERILE PACKAGING		✓
EO STERILIZATION		✓
SECONDARY PACKAGING		✓

OPTION - B (Semi-Finished - BULK)



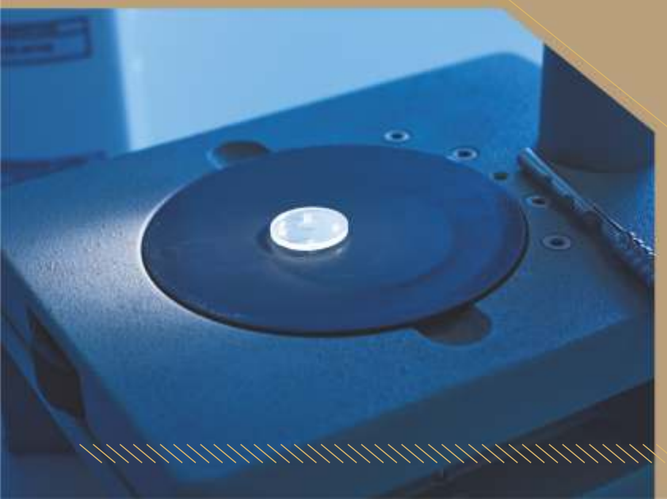
- Ready aspherical optical and haptic design
- Custom made optical and haptic design is available.
- Fixed haptic thickness is 0.30 mm, custom haptic thickness is available upon request.
- Send in PP bottles as bulk.

OPTICAL PROPERTIES	IOLStar Design	Customer Design
FRONT SURFACE	Aspherical	Any
BACK SURFACE	Spherical	Any

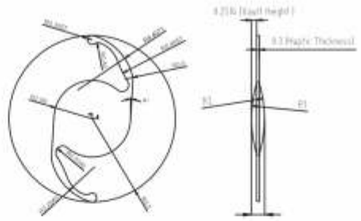
OPERATION STEPS	Supplier Operations	Customer Operations
OPTICAL SURFACE - BACK	✓	
OPTICAL SURFACE - FRONT	✓	
HAPTIC MILLING	✓	
DEBLOCKING	✓	
CHEMICAL EXTRACTION	✓	
QUALITY CONTROL		✓
MEASUREMENTS		✓
LABELING		✓
STERILE PACKAGING		✓
EO STERILIZATION		✓
SECONDARY PACKAGING		✓

MULTIPLE SOLUTIONS WITH

HIGH-END PRODUCT RANGE



OPTION – C (Non-Sterile)

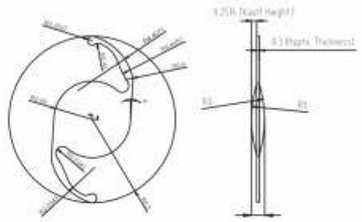


- Ready aspherical optical and haptic design.
- Custom made optical and haptic design is available.
- Fixed haptic thickness is 0.30 mm, custom haptic thickness is available upon request.
- Send as non-sterile in sterile packaging and ready for sterilization.
- Own labeling and barcoding options are available upon request.

OPTICAL PROPERTIES	IOLStar Design	Customer Design
FRONT SURFACE	Aspherical	Any
BACK SURFACE	Spherical	Any

OPERATION STEPS	Supplier Operations	Customer Operations
OPTICAL SURFACE - BACK	✓	
OPTICAL SURFACE - FRONT	✓	
HAPTIC MILLING	✓	
DEBLOCKING	✓	
CHEMICAL EXTRACTION	✓	
QUALITY CONTROL	✓	
MEASUREMENTS	✓	
LABELING	✓	
STERILE PACKAGING	✓	
EO STERILIZATION		✓
SECONDARY PACKAGING		✓

OPTION – D (Sterile)



- Ready aspherical optical and haptic design
- Custom made optical and haptic design is available
- Fixed haptic thickness is 0.30 mm, custom haptic thickness is available upon request.
- Send as sterile condition in sterile packaging
- Own labeling and barcoding options are available upon request.

OPTICAL PROPERTIES	IOLStar Design	Customer Design
FRONT SURFACE	Aspherical	Any
BACK SURFACE	Spherical	Any

OPERATION STEPS	Supplier Operations	Customer Operations
OPTICAL SURFACE - BACK	✓	
OPTICAL SURFACE - FRONT	✓	
HAPTIC MILLING	✓	
DEBLOCKING	✓	
CHEMICAL EXTRACTION	✓	
QUALITY CONTROL	✓	
MEASUREMENTS	✓	
LABELING	✓	
STERILE PACKAGING	✓	
EO STERILIZATION	✓	
SECONDARY PACKAGING		

ENLARGE YOUR SIGHT

preloaded

FOLDABLE
ASPHERICAL
PRELOADED IOL
INJECTION
SYSTEM

IOLstar
MATERIALS AND TECHNOLOGIES

20 YEARS ANNIVERSARY

IOLstar Preloaded IOL Delivery System is a new and easy-to-use intraocular lens injector system preloaded with our well known hydrophobic intraocular lens (IOL).

IOLstar Preloaded IOL Delivery System is designed for safe and precise implantation of an IOL into the human eye during cataract surgery.

This preloaded delivery system is ergonomically designed with safe, efficient and reliable control features. It's also error-free from IOL-loading with no IOL-touching.

Key Feature & Benefits;

- Easy to use
- Glistening Free Hydrophobic Acrylic IOL
- 2.2 mm MICS

MODEL NAME	ASPL6125/ASPL6130
IOL DESIGN	Aspheric single piece for posterior capsular bag
MATERIAL	Glistening Free, Hydrophobic Acrylic with UV absorber
OPTIC DIAMETER	6,0 mm
OVERALL LENGTH	12,50 / 13,00 mm
HAPTIC ANGLE	0°
OPTIC DESIGN	Biconvex square edge optic and haptic
DIOPTER RANGE	+5D to 30D, 0.5D increment from 5D to 30D
REFRACTIVE INDEX	1,51
SPHERICAL ABERRATION (SA)	Aberration neutral design
MATERIAL WATER CONTENT	<1 %
STERILIZATION	EtO
A CONSTANT	118,4
ACD	5,2
TYPE OF DELIVERY SYSTEM	Single-use fully preloaded IOL with injection system
INCISION SIZE	2,2 mm
SHELF LIFE	5 Years

aspheric

FOLDABLE ASPHERICAL INTRAOCULAR LENSES

IOLstar
MATERIALS AND TECHNOLOGIES

20 YEARS ANNIVERSARY

Combined with 100% hydrophobic material and unique manufacturing process IOLStar product range of IOLs provides surgeons the options for high quality optics, which have glistening free behavior and better visual acuity. The material and design of the lenses ensure controlled unfolding of lenses at room temperature and great centration for different sizes of capsular bags.

Key Features & Benefits

- High quality 100% hydrophobic material with market-proven IOL design.
- The aberration-free optic provides great depth-of-field, does not induce Higher Order Aberrations when decentered optically or anatomically and provides safe and reliable option for surgeon because the design is independent of any pre-op corneal aberration in patients.
- Single-piece modified L-loop, non-angulated haptic design for excellent centration in different sizes of capsular bags.
- 360-degree, square-edge design for decreasing PCO rate.
- Unique manufacturing process ensures glistening free behavior and better visual acuity.
- Smooth injection and controlled unfolding of lens at room temperature.
- Optimum refractive index ensures minimal glare and halos, thus providing better contrast and visual acuity.

MODEL NAME	ASP6125/ASP6130
IOL DESIGN	Aspheric single piece for posterior capsular bag
MATERIAL	Glistening Free, Hydrophobic Acrylic with UV absorber
OPTIC DIAMETER	6,0 mm
OVERALL LENGTH	12,50 / 13,00 mm
HAPTIC ANGLE	0°
OPTIC DESIGN	Biconvex 360° square edge optic and haptic
DIOPTER RANGE	+0D to 40D, 0.5D increment from 0D to 40D
REFRACTIVE INDEX	1,51
SPHERICAL ABERRATION (SA)	Aberration neutral design
MATERIAL WATER CONTENT	<1 %
STERILIZATION	EtO
A CONSTANT	118,4
ACD	5,2
TYPE OF DELIVERY SYSTEM	Easy to handle IOL holder
INCISION SIZE	2,2 mm
SHELF LIFE	5 Years

Traditional Design
Supported By Premium “Glistening Free”
Hydrophobic Acrylic Material

ENLARGE YOUR SIGHT

spheric

FOLDABLE SPHERICAL INTRAOCULAR LENSES

IOLstar
MATERIALS AND TECHNOLOGIES

20 YEARS ANNIVERSARY

Combined with 100% hydrophobic material and unique manufacturing process IOLStar product range of IOLs provides surgeons the options for high quality optics, which have glistening free behavior and better visual acuity. The material and design of the lenses ensure controlled unfolding of lenses at room temperature and great centration for different sizes of capsular bags.

Key Features & Benefits

- High quality 100% hydrophobic material with market-proven IOL design.
- Cost Effective.
- Single-piece modified L-loop, non-angulated haptic design for excellent centration in different sizes of capsular bags.
- 360-degree, square-edge design for decreasing PCO rate.

  Unique manufacturing process ensures glistening free behavior and better visual acuity.
- Smooth injection and controlled unfolding of lens at room temperature.
- Optimum refractive index ensures minimal glare and halos, thus providing better contrast and visual acuity.

MODEL NAME	SP260/SP6125/SP6130
IOL DESIGN	Single piece for posterior capsular bag
MATERIAL	Glistening Free, Hydrophobic Acrylic with UV absorber
OPTIC DIAMETER	6,0 mm
OVERALL LENGTH	12,50 / 13,00 mm
HAPTIC ANGLE	0°
OPTIC DESIGN	Biconvex 360° square edge optic and haptic
DIOPTER RANGE	+0D to 40D, 0.5D increment from 0D to 40D
REFRACTIVE INDEX	1,51
MATERIAL WATER CONTENT	<1 %
STERILIZATION	EtO
A CONSTANT	118,4
ACD	5,2
TYPE OF DELIVERY SYSTEM	Easy to handle IOL holder
INCISION SIZE	2,2 mm - 2,4 mm
SHELF LIFE	5 Years

Focus on both “far and near”

ENLARGE YOUR SIGHT

multifocal

FOLDABLE
MULTIFOCAL
INTRAOCULAR
LENSES

IOLstar
MATERIALS AND TECHNOLOGIES

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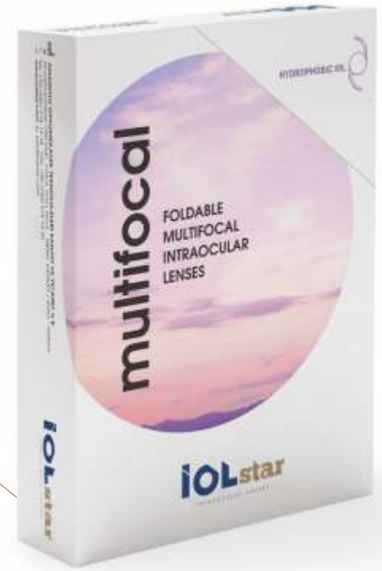

The asymmetrical light distribution used in IOLStar multifocal IOLs ensures optimal visual performance at all distances, and the pupil-independent design additionally enables good vision under low light conditions.

Offering your patients superior near and distance vision. IOLStar multifocal IOLs represents advanced multifocal technology, enabling patients to see clearly without glasses at near and far distances.

The platform offers an optimized optic design for an excellent visual outcome and a high degree of spectacle independence, including reading distance.

Patients treated with IOLstar multifocal IOLs enjoy high spectacle independence, leading to a better quality of life.

Key Feature & Benefits;

- Light is distributed asymmetrically between the different focus points to ensure excellent vision at all distances. 65% of light being allocated to the far and 35% to the near focal point.
- Independence from pupil size due to high-performance diffractive-refractive micro-structure covering the 5.0 mm of optical diameter.
- Due to the asymmetrical light distribution between far (65%) and near (35%) focal points, the light yield of the amounts to 80%, improving overall contrast sensitivity.
- 2,2 mm MICS

MODEL NAME	MF100
IOL DESIGN	Diffractive Single piece for posterior capsular bag
MATERIAL	Glistening Free, Hydrophobic Acrylic with UV absorber
OPTIC DIAMETER	6,0 mm
OVERALL LENGTH	12,5
HAPTIC ANGLE	0°
OPTIC DESIGN	Plano-convex square edge optic and haptic
DIOPTER RANGE	10D to 25D, 0.5D increment from 10D to 30D
NEAR POWER	+3,50 D (Spectacle Plane)
REFRACTIVE INDEX	1,51
MATERIAL WATER CONTENT	<1 %
STERILIZATION	EtO
A CONSTANT	117
DIFFRACTIVE RING NUMBER	19
TYPE OF DELIVERY SYSTEM	Easy to handle IOL holder
INCISION SIZE	< 2,2 mm
SHELF LIFE	5 Years