

FineVision^{HP} technical specifications



FINEVISION^{HP} G-FREE
TRIFOCAL OPTIC

Commercial name	Pod F GF		
Material	PhysIOL G-free® (hydrophobic acrylic glistening-free)*		
Overall diameter	11.40 mm		
Optic diameter	6.00 mm		
Optic	Biconvex aspheric (-0.11μ SA) trifocal diffractive FineVision		
Haptic design	Double C-loop & RidgeTech		
Filtration	UV and blue light		
Refractive index	1.52		
Abbe number	42		
Angulation	5°		
Additional power	+ 1.75D for intermediate vision and + 3.50D for near vision		
Injection system	Medicel Accuject 2.0 from 10D to 24.5D Medicel Accuject 2.2 from 25D to 35D		
Incision size	≥ 2.0 mm		
Spherical power	10D to 35D (0.5D steps)		
Square edge	360°		
Nominal manufacturer A constant	119.40		
Suggested A constant**		Interferometry	Ultrasound
	Hoffer Q: pACD	5.85	5.59
	Holladay 1: Sf	2.06	1.80
	SRK II: A	119.80	119.40
	SRK/T: A	119.40	119.05
	Haigis***: a0; a1; a2	1.70; 0.4; 0.1	1.214; 0.4; 0.1
Olsen / Lens Star	IOL Manufacturer	PhysIOL	
	IOL Model	PODF_GF	
	Material OR index of refraction (N)	1.53	
	Lens Thickness (22D)	0.71	
	AR/PR (22D) OR optical config (22D)	17.75/-17.75	
	ACD iol OR A srkt	4.81	
	SA (Spherical Aberration)	-0.11	

* The PhysIOL G-free® is patented since 2010. ** Estimates only; surgeons are recommended to use their own values based upon their personal experience. Refer to our website for updates. *** Not optimised.

References:
 (1) Biomaterial Optical Purity Report & Appendix 1, G.U. Auffarth, University Hospital Heidelberg, May 2017. (2) R. Bilbao-Calabuig, MD et al.: Visual outcomes following bilateral implantation of two diffractive trifocal intraocular lenses in 10,084 eyes, American Journal of Ophthalmology, July 2017. (3) Xi L, Liu Y, Zhao F, Chen C, Cheng B.: Analysis of glistenings in hydrophobic acrylic intraocular lenses on visual performance, Int J Ophthalmol. 2014. Jun 18;7(3):446-51 (4) D.Bozukova,PhD et al: Double-C loop platform in combination with hydrophobic and hydrophilic acrylic intraocular lens materials, J Cataract Refract Surg 2015; 41:1490-1502 (5) F.Poyals et al: Stability of a Novel Intraocular Lens Design: Comparison of Two Trifocal Lenses, J Refract Surg. 2016;32(6):394-402. (6) S. Marcos, PhD, The Ophthalmologist. April 2017. (7) M. Vinas, MSc, C. Dorransoro, PhD, N. Garzón, OD, MSc, F. Poyales, MD, S. Marcos, PhD: In vivo subjective and objective longitudinal chromatic aberration after bilateral implantation of the same design of hydrophobic and hydrophilic intraocular lenses, J Cataract Refract Surg 2015; 41:2115-2124.

Other FINE solutions

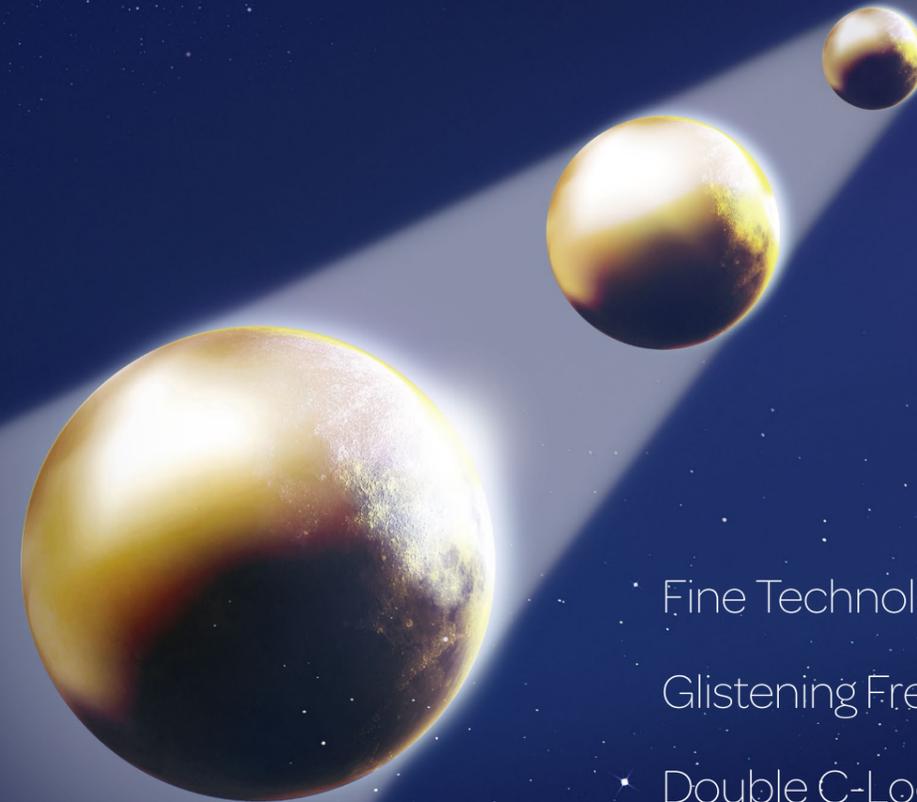
FINEVISION
TRIFOCAL OPTIC

FINEVISION TORIC
TRIFOCAL OPTIC

MICROPURE 1.23
HYDROPHOBIC MONOFOCAL OPTIC

BAUSCH + LOMB

FINEVISION^{HP} Hydrophobic & Physiological Trifocal IOL



Fine Technology

Glistening Free¹

Double C-Loop

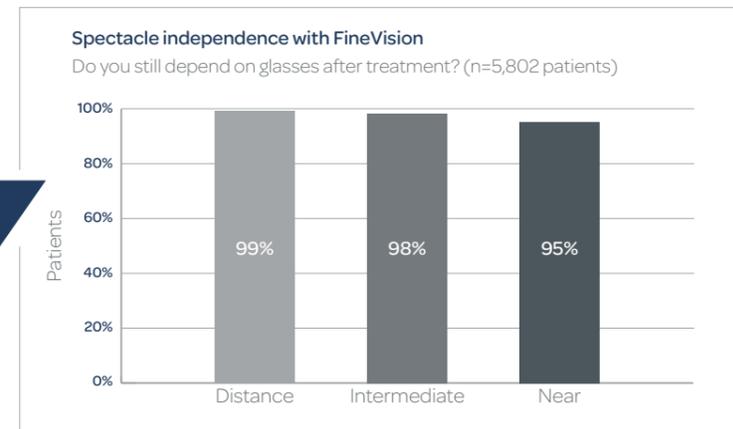
Physiological

Chromatic Aberration

PhysIOL
ADVANCED OPTICAL SOLUTIONS

FINE technology: the Gold Standard with 7 years follow-up

FineVision is the first trifocal apodised and convoluted IOL, implanted since 2010 and considered the **Gold Standard** in cataract and refractive surgery. This proven technology achieves the promise of a **spectacle free life**, offering **continuous vision** to accomplish tasks at all distances.²



What do studies say?

95% of patients reach complete spectacle independence at all distances.⁽²⁾

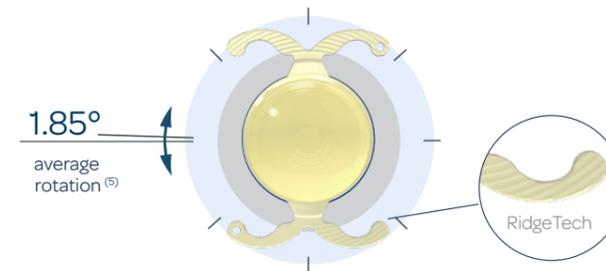
97% of patients treated with FineVision would choose the same IOL again!⁽²⁾



Double C-loop technology: optimal stability

Besides its postoperative rotational stability, the double C-loop platform offers easy maneuverability, both clockwise and counterclockwise, for accurate axis placement of the IOL.

“ The double-C-loop symmetric quadripod platform naturally provides the IOL with axial and centration stability. In combination with the Glistening-free material, it is a suitable candidate for premium IOLs.⁴ ”



The **RidgeTech** design reduces the risk of stickiness between the haptics and the optic. It ensures a safe injection and reliable unfolding of the lens.

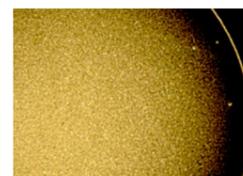
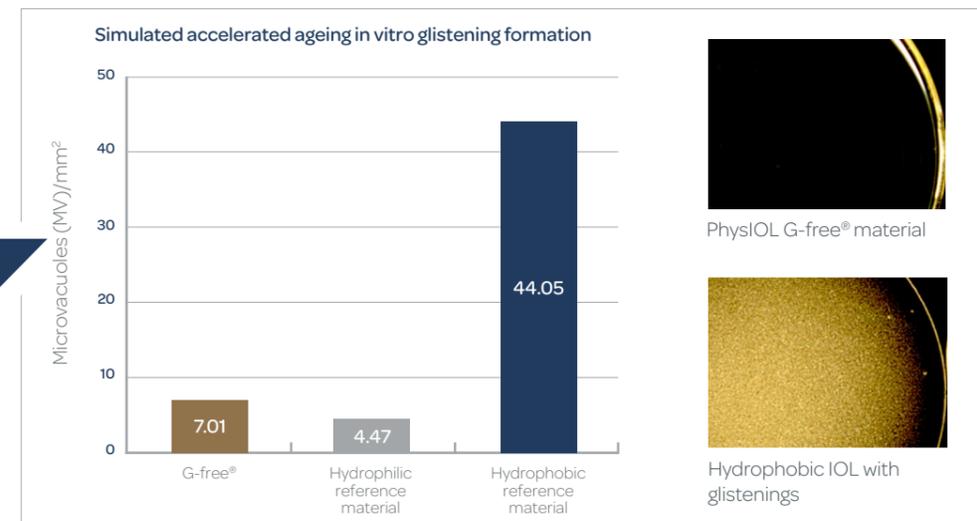
G-free® technology:

What is the best solution for you and your patients? Some IOLs develop glistenings after implantation which may impact the quality of vision.³ The G-free® technology patented by PhysIOL is **glistening-free**.¹

What do studies say?

David J. Apple Laboratory demonstrated that FineVision with the G-free® material is glistening-free.

No significant difference in microvacuoles formation was observed with the G-free® material compared to the hydrophilic reference material.⁽¹⁾



What do studies say?

“... chromatic aberrations play a major role in the quality of vision, and LCA interacts with the eye’s natural aberrations to improve the overall quality of vision. I think it’s important to keep the LCA balance that’s present with the crystalline lens, and I think that’s what PhysIOL achieves with this hydrophobic G-free material.”⁽⁶⁾

Physiological chromatic aberration

The PhysIOL G-free® material **mimics** the physiological longitudinal chromatic aberration of a young phakic eye.⁽⁶⁾

