McAsfeer*
Speciality Contact Lenses

Custom Soft Toric Contact Lens for
ASTIGMATISM

SILVER 1L

SILVER LINE
LABORATORIES

All Day Clear And Comfortable Vision!

Custom Made Soft Toric Contact Lens for Astigmatism Correction

SILVER 1 represents the latest generation of our premium soft toric lens series. Designed using advanced Free Form technology, each lens features precision-cut surfaces that enhance stability and visual clarity. The use of our upgraded GM3A material ensures lasting comfort, high oxygen permeability, and superior handling for both corneal and partial residual astigmatism.

Application

- Ideal for patients with corneal or lenticular astigmatism.
- Suitable for daily wearers seeking a balance of sharp vision and comfort.

Lens Material

- GM3 Filcon II2, with 58% water content.
- GMMA + VP formulation provides high moisture retention, improved deposit resistance, and a soft feel.
- Glycerol methacrylate component enhances comfort and hydration through better moisture absorption.
- A blue handling tint is included for easy visibility (clear tint optional).

Product Description

SILVER 1 lens is easy to fit empirically with a very high success rate. The lens is stabilised by inclusion of prism ballast to the front surface which tends to all types of corneal and partial residual astigmatism. The GM3 58% water content material, allows flexibility moreover, high permeability. A Small Horizontal line is engraved at 3 & 9 O'clock for identification.

Fitting Instructions and Case Selection

Corneal measurements	*Manifest Refraction*
K-Horizontal	Spherical Acceptance
K-Vertical	Cylindrical Acceptance with Axis

It is necessary to determine the type of cylinder. This lens is most effective when the majority of the cylinder is corneal. Also it should correlate with manifest refraction.

Calculations for final lens parameters to place an order for customisations

Example Case

Base Curve Calculation (mm)	K-Horizontal	[Flat K] 7.70 mm (43.75 D)
	K-Vertical	[Steep K] 7.00 mm (48.25 D)
	K-Flat + 0.80	7.70 + 0.80 = **8.50 mm**

Power Calculation (Diopters)	Spherical	-8.00 Sph.
	Cylindrical & Axis	-4.50 x 90*
	After Vertex Calculation	**-7.50sph/-3.50 Cyl x 90***

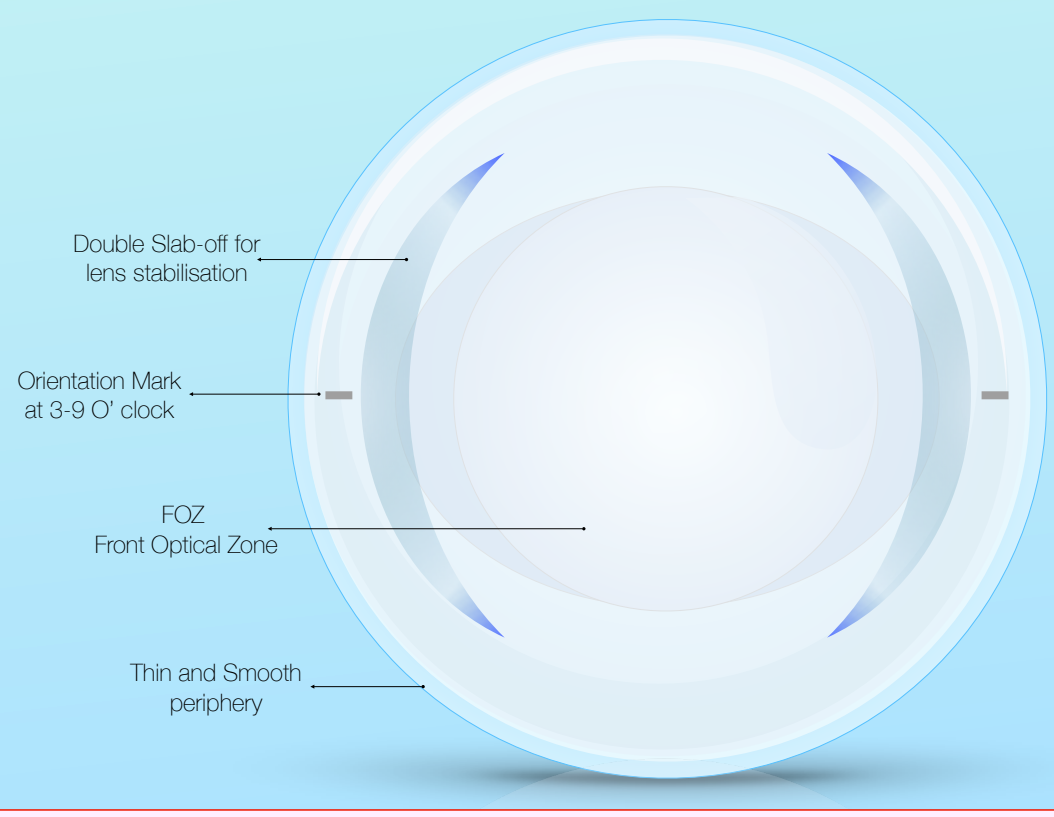
Diameter Calculation (mm)	If Flat K is ≤ 7.95 mm	14.50 mm
	If Flat K is ≥ 8.00 mm	15.00 mm
	As Flat K is 7.70 mm	**14.50 mm**

Standard diameter is 14.50 mm, it is recommended to increase the over all diameter to 15.00 mm, when the flat k is higher than 8.00 mm or incase of high corneal astigmatism, for better lens stability and centration.

Final Parameter to order SILVER 1↓ custom toric lens

Final Lens Parameters To Order	Base Curve
Base Curve	8.50 mm
Power	-7.50sph/-3.50 Cyl x 90*
Diameter	14.50 mm

Lens Geometry



If the contact lens stabilisation is not functioning correctly, reorder the lens by changing the axis using the LARS rule (Left Add, Right Subtract). This lens can cover up to ±10° of axis rotation .

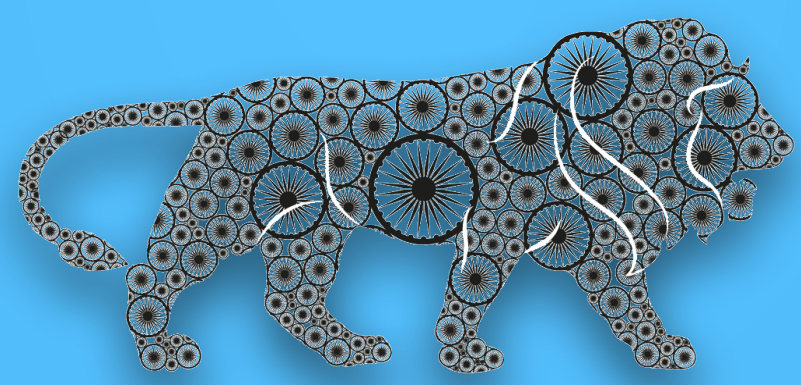
Lens Material Specification & Geometry

Hydrophilic Lens	Hydrogel	Silicon Hydrogel
Material:	GM3	DEFINITIVE 74
Material:	Filcon II 2	Efrofilcon A 5B (60) [74%]
Water Content:	58%	74%
Handling Tint:	Blue (Standard), Clear (Optional)	Blue (Standard)
Visible Light Transmission:	97%	-
Base Curve (mm)	7.80,8.10, 8.40, 8.70, 9.00, 9.30, 9.60 mm	7.80,8.10, 8.40, 8.70, 9.00, 9.30, 9.60 mm
Diameter:	14.50 (Standard), 15.00 mm	14.50 (Standard), 15.00 mm
Central Thickness:	0.10 mm @ -3.00 DS	0.10 mm @ -3.00 DS
Oxygen Permeability (DK):	25.5 x 10^{-11} @ 35°C	60 x 10^{-11} @ 35°C
Spherical Power*:	+20.00 to -20.00 in 0.25 DS	+20.00 to -20.00 in 0.25 DS
Cylinder:	Front Toric: Upto -6.00DC	Front Toric: Upto -6.00DC
	Back Toric: Upto -8.00DC	Back Toric: Upto -8.00DC
Axis:	0* to 180 @ step of 1*	0* to 180 @ step of 1*
Stabilisation	Double Slab-off	
Toricity	Posterior Surface	
Orientation Mark:	Mark at 3 & 9 o’ clock	Mark at 3 & 9 o’ clock
Modality	Yearly	Quaterly

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