Miru

1month Menicon

[Product Guide]

To see, is to discover.
To see, is to be moved.
To see, is to laugh.
To see, is to question.
To see, is to understand.
To see, is to share.

From the time we open our eyes in the morning,
until we close them again at night, our days—
and our lives—are defined by what we see.

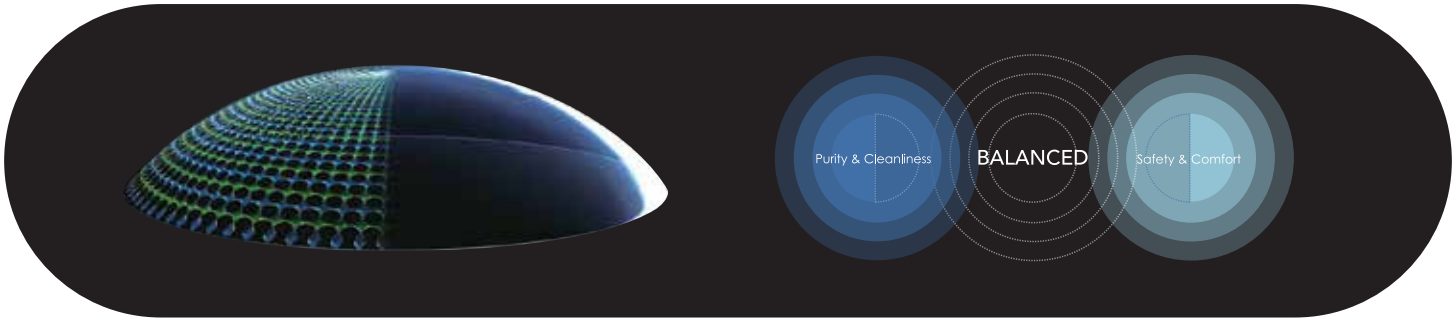
That's why we chose Miru—a Japanese word
meaning " to see"—as the global brand name
for our visionary new range of contact lens products.

Together with the other products in the Miru line,
they are designed to change the way you see the world forever.

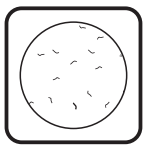
Miru
by Menicon

Miru
1month Menicon

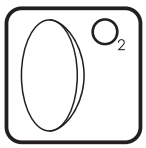
Key Characteristics



1month Miru is designed with balanced properties which support our aim to provide the best possible monthly contact lens for both eye care practitioners and their patients. Offers the best possible wearing experience for patients whilst providing an exceptional level of safety.

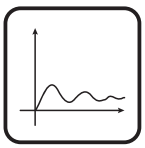


Low Bacterial Adhesion



Optimal Corneal Oxygenation

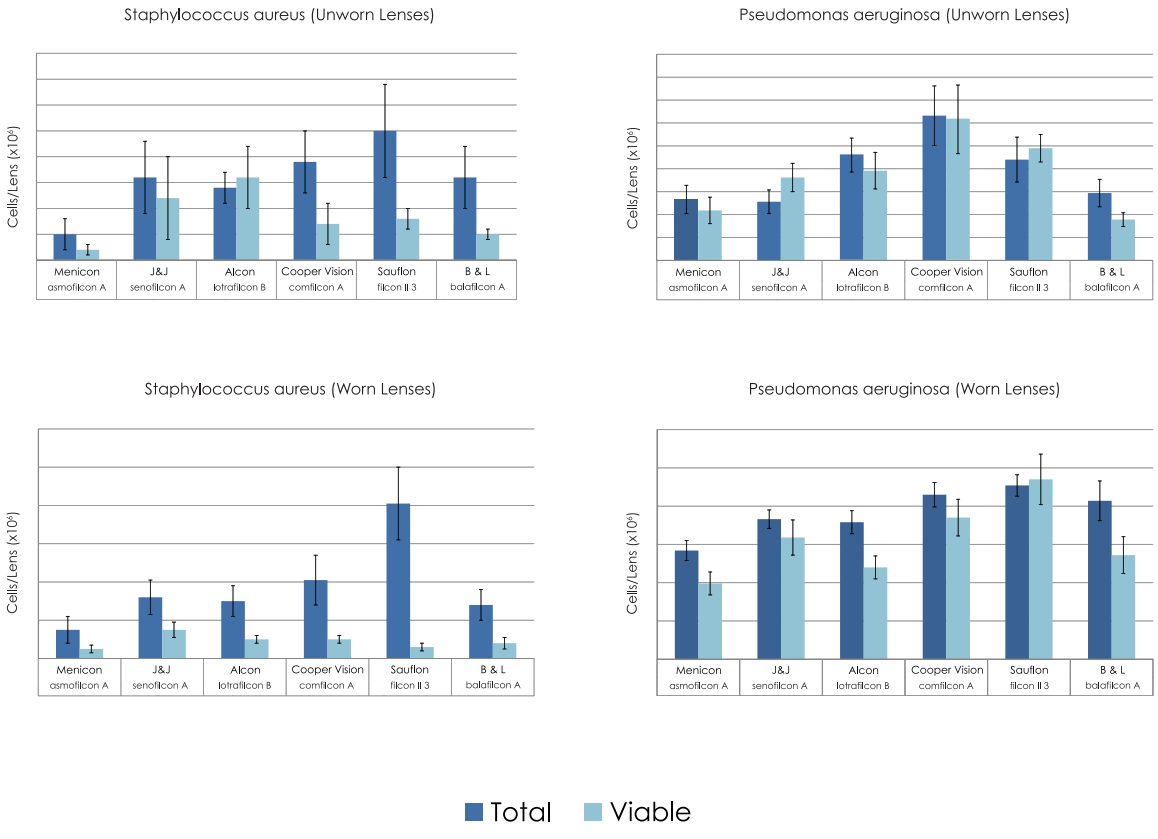
Minimal Lipid Deposition



Minimal Sensitivity

SAFETY FIRST

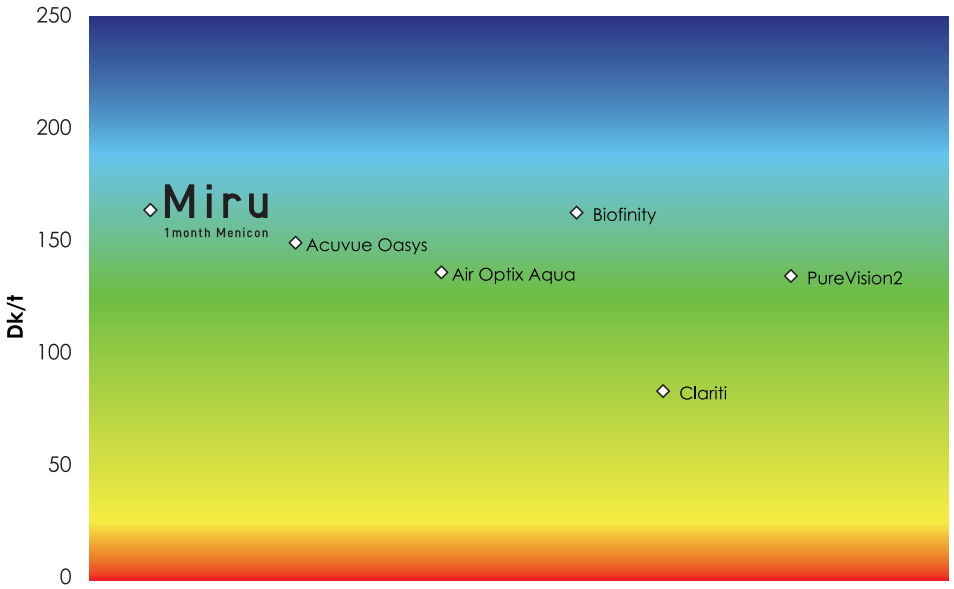
Menicon has developed a unique and highly sophisticated surface technology as part of its ongoing aim to provide a safer and cleaner contact lens wearing experience. 1month Miru, asmofilcon A material demonstrated the lowest level of bacterial adhesion to the lens surface when compared with five commercially available silicone hydrogel contact lenses.



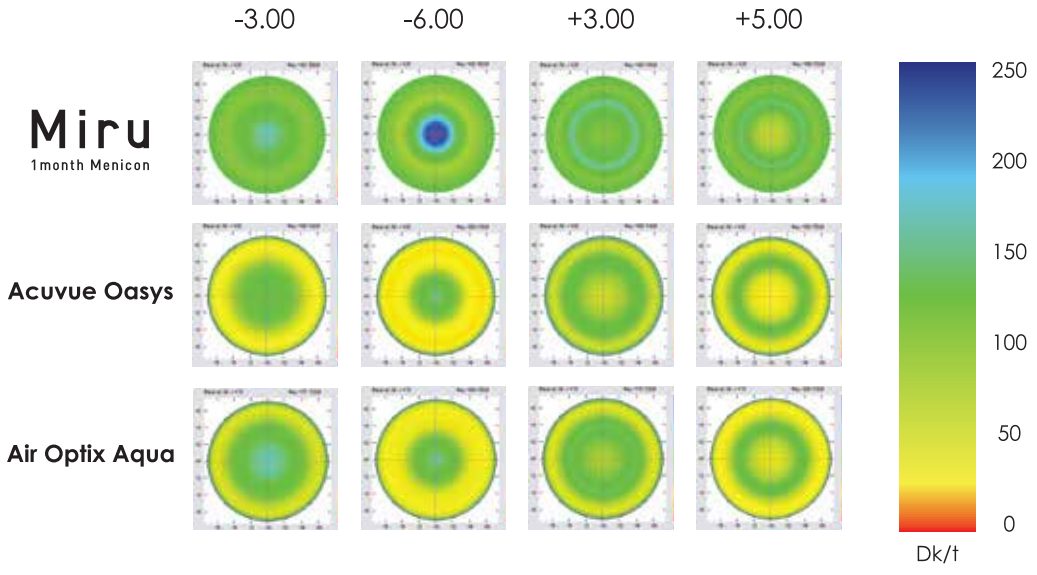
Source: Vijay et. al. Bacterial Adhesion to Unworn and Worn Silicone Hydrogel Lenses. Optom Vis Sci 2012;89:1095-1106

OXYGEN TRANSMISSIBILITY

1month Miru silicone hydrogel contact lens has one of the highest levels of oxygen transmissibility (161 Dk/t) amongst all commercially available lenses today. It is well above that recommended for safe daily and even extended wear of contact lenses. Furthermore, Menicon has focused on a material and lens design combination that provides a constant higher level of averaged oxygenation across the entire cornea surface. Such attention to balancing design and material is key to providing a safer lens wearing experience.

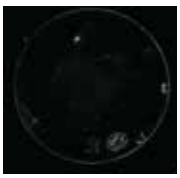
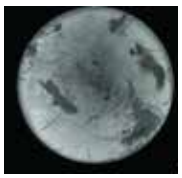
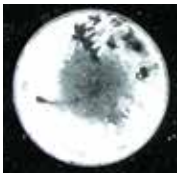


Maximum corneal oxygenation across the relevant areas of the lens and over the entire power range



RESISTANCE TO LIPID DEPOSITION

1month Miru has a greater resistance to lipid deposition in comparison to five other popular silicone hydrogel contact lenses. The greater resistance to deposition found with 1month Miru is likely to result in lower levels of discomfort, visual disturbances, inflamation of the ocular surface and lens spoilation in comparison to the other silicone hydrogel contact lenses that were examined.

Miru 1month Menicon		Biofinity		Clariti	
Acuvue Oasys		Air Optix Aqua		PureVision2	

Source: Menicon data on file

Method

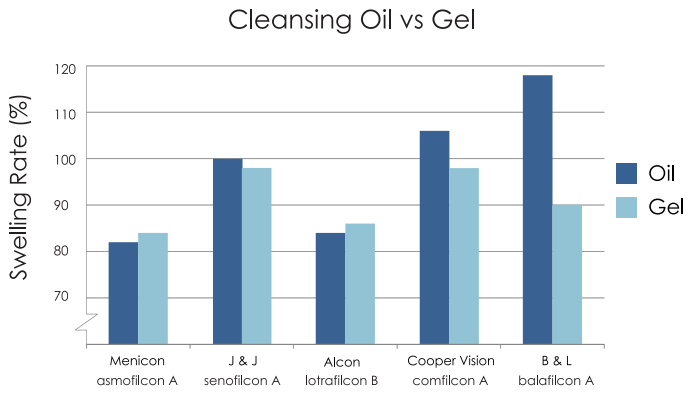
SiHLs were immersed in 1.5mL molten Pharmasol* for 3hrs at 60°C, rubbed with MeniCare Soft multipurpose solution (Menicon) 20 times. Subsequently, lipid deposition resitance was visually assessed at room temperature.
*Pharmasol, a wax-like compound, was used as a marker for lipid deposition.

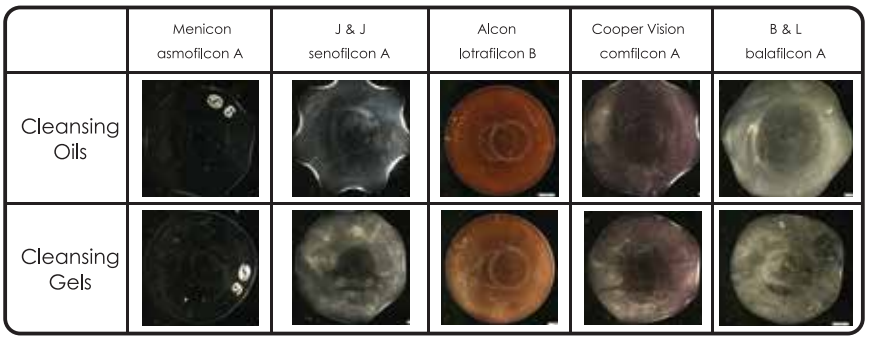
White areas seen on lenses represent Pharmasol deposits

Product	1month Miru	Biofinity	Clariti	Acuvue Oasys	Air Optix Aqua	PureVision2
Material	asmofilcon A	comfilcon A	filcon II 3	senofilcon A	lotrafilcon B	balafilcon A
Water Content (%)	40	48	56	38	33	36
Center Thickness (mm @ -3.00D)	0.08	0.08	0.07	0.07	0.08	0.07
Dk/t (@ -3.00D)	161	160	86	147	138	130
Surface Treatment	Yes MeniSilk™ & Nanogloss™ Technology	No AQUAFORM™ Comfort Science™	No	No Hydraclear Plus Tecnology	Permanent biocompatible plasma treatment non ionic	Yes

THE EFFECT OF COSMETIC REMOVERS

Contact lenses are frequently used in conjunction with other face and eye cosmetic products, which can produce some sensitivity problems. However, 1month Miru has shown minimal sensitivity in such circumstances. An in-vitro study investigated the effect of cleansing agents on 1month Miru and other silicone hydrogel lenses. Overall, a greater swelling rate was observed when lenses were soaked in cleansing oils in comparison to lenses soaked in cleansing gels, although this difference was negligible for asmofilcon A and lotrafilcon B lenses. Differences between lenses in swelling rate due to deposition and absorption of eye cosmetics might be related to differences in hydrophilic characteristics between lenses. The results of this study should help eye care practitioners in selecting the most appropriate contact lens to minimize deformation, degeneration and swelling of silicone hydrogel contact lenses due to deposition and absorption of cleansing agents. Additionally, the results of this study also highlights the importance of removing contact lenses before the use of cleansing agents.

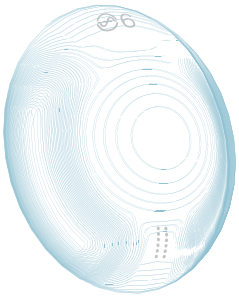




Source: Inaba M. Silicone Hydrogel Lenses and the Issue of Cosmetics. J Jpn CL Soc 55 Supplement S14-S18 2013

Miru 1month Menicon for Astigmatism

Thinner back toric design



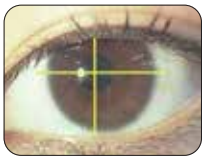
Double vertical asymmetric slab-off *

- To harness the natural lid force

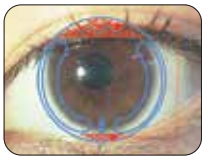
Horizontal (Right and Left) peripheral ballast

- Prism free optic zone (O.Z.)
- Independent peripheral design from O.Z.

Anatomic profile



The eyelids natural coverage of the cornea is asymmetric where the upper lid covers more of the cornea than the lower lid.



*

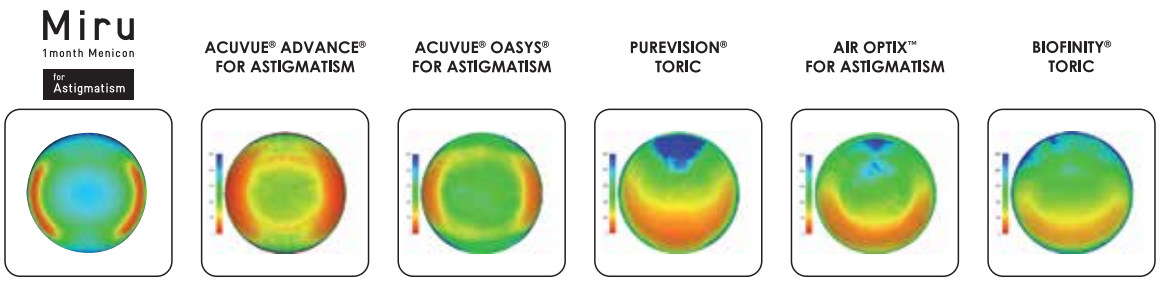
The double vertical slab off fits to the asymmetric lids anatomy to prevent axis rotation and to optimise lens centration.

NOTE

TIP: Because of the vertical asymmetric design, 1month Miru for Astigmatism should be placed in the eye with the number 6 logo at the top, and the axis guide mark at the bottom.

Lens Centration • Axis Stabilization • Easy Fitting

Maximum Transmissibility

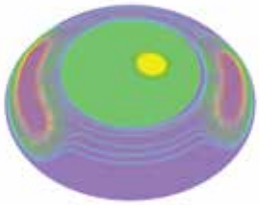


1month Miru for Astigmatism has a prism free optic zone (O.Z.) and asymmetric slab off profile which ensures maximum oxygen transmissibility over the cornea.

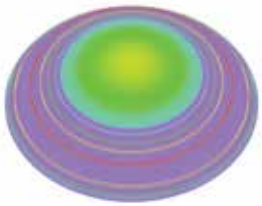
Transmissibility colour maps from different toric design lenses
(Power: -3.00 D Cyl: -1.25 D Axis: 180°)

Source: Menicon data on file

Miru 1month Menicon Multifocal

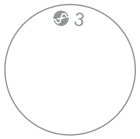
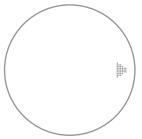
High multifocal design		High add design utilizes a double slab-off to prevent rotation and maintain a comfortable field of vision.

When viewing at short distances, the pupil contracts and is located downward nasally. The high add design covers a certain range of powers and has a decentered optic zone to achieve an effective usage of the near vision zone. When viewing at long distances, the relative portion of the near vision zone covering the pupil decreases, reducing interference from the near vision zone and providing favorable long distance vision. Conversely, when viewing at short distances, the portion of the near vision zone covering the pupil increases, reducing interference from the distance vision zone and providing favorable long distance vision.

Low multifocal design		The 3 zones are designed in an optimal balance to control the depth of focus to provide a natural vision between near and far vision

Zone	Characteristics
Near Vision Zone	Allows for natural vision from close up to computer screen distance
Central Zone	Has a power profile similar to spherical lenses which allows far vision without discomfort
Far Vision Zone	Reduces excessive minus powers and controls over refraction

Product Specification

	Product	Miru 1month Menicon	Miru 1month Menicon for Astigmatism	Miru 1month Menicon Multifocal	
	Design	Sphere	Toric	Progressive (Low)	Bi-Focal (High)
Parameters range	Diameter	14.0mm		14.2mm	
	Base Curve	8.30mm / 8.60mm	8.60mm		
	Power	+6.00D to -13.00D	0.00D to -10.00D	+6.00D to -13.00D	
		0.25D steps 0.50D steps +6.00 -6.00 -13.00	0.25D steps 0.50D steps 0.00 -6.00 -10.00	0.25D steps 0.50D steps +6.00 -6.00 -13.00	
	Cylinder		-0.75D, -1.25D, -1.75D		
	Axis		10°, 20°, 80°, 90°, 100°, 160°, 170°, 180°		
Lens identification code for reference		 B.C. 8.30	 B.C. 8.60	B.C. 8.60	 Low Design (Add +1.00)	 High Design (Add +2.00)
Lens design	Dk/t_c	161×10^{-9} (cm/sec)•(mL O_2 /(mL×mmHg))			
	Center thickness	0.08mm @ -3.00D			
Packaging		• 3 lenses pack • 6 lenses pack Menicon blister pack	• 6 lenses pack Menicon blister pack	• 6 lenses pack Menicon blister pack	
Recommended wear schedule		• 1 month replacement • Daily wear			

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MK1MMPG003

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