

Menicon Z material	Tisilfocon A Siloxanylstyrene and fluoromethacrylate copolymer with UV filter (Benzotriazol)
Handling tint	Blue
Dk (ISO)	163x10 ⁻¹¹ (cm ² / sec) [mlO ₂ / (ml . mmHg)]
Luminous transmittance	(380 - 780 nm) ≥ 90%
Specific gravity	1.20 (25°C)
Refractive index	1.439
Lens availability	A large range of spheroaspherical, aspheric, toric, multifocal and custom designs are available including ROSE K. Please contact your area sales manager or Menicon customer service's team for further information.
Recommended replacement schedule	Contact lenses manufactured in Z material should be replaced at least every 2 years.
Lens Care	MeniCare Plus for daily care. Progent for protein removal, intensive cleaning and disinfection once a week. For lipids, use Spray & Clean prior to MeniCare Plus daily use.

Menicon Z Material



HYPER Dk... STRENGTH... COMFORT...
SAFETY... UP TO 30 DAYS CONTINUOUS WEAR...

(1) R.A Albright et al. Post market surveillance of Menicon Z Rigid Gas Permeable contact Lenses for up to 30 days continuous wear in the United States. Eye & Contact lens. 2010; 5: 241-244.

(2) Benjamin W.J. EOP and Dk/L: the quest for hyper transmissibility. J Am Optom Assoc 1993; 64(3):196-200.

(3) Yamamoto et al. Ophthalmology 2002;109(1): 27-39.

(4) Ichijima H, Cavanagh HD. How rigid gas permeable lenses supply more oxygen to the cornea than silicone hydrogels: A new model. Eye & Contact lens 2007; 33: 216-223.

(5) <http://www.menicon.com/pro/education/publications/gp-lenses-publications>





MENICON Z (TISILFOCON A) SETTING A NEW STANDARD

Providing not only hyper Dk figures, but also demonstrating unequalled mechanical properties when compared to other high Dk materials due to siloxanylstyrene content.

Hyper Dk

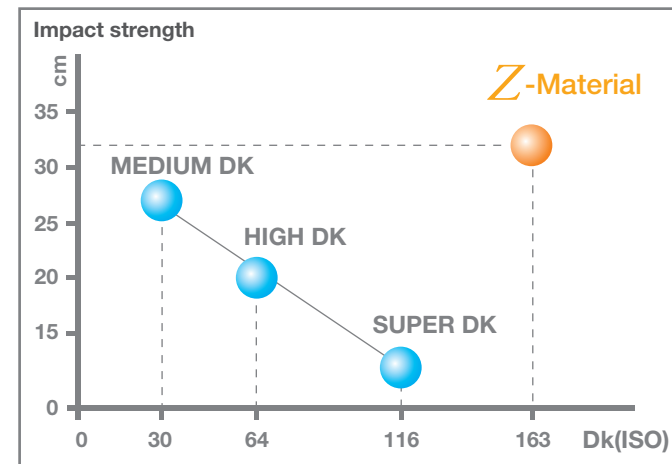
Dk (ISO) : 163×10^{-11}
(Fatt) : 189×10^{-11}



Material: Menicon Z (tisilfocon A) with UV filter

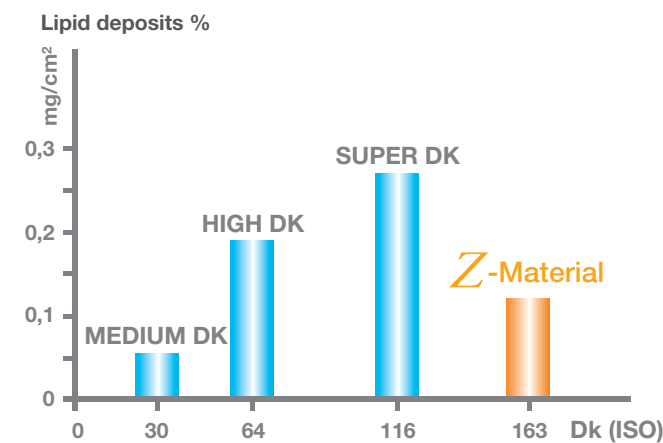
• **Extraordinary levels of oxygen permeability**

• **Superior resistance to breakage and scratches**



Menicon Z material impact strength (Drop ball test):
A steel ball is dropped on a 0.2 mm thick sample lens. The recorded height at which the Z lens breaks is higher than all other materials.

• **Minimal lipid deposition**



Lipid deposits percentage:
Better deposit resistance with Menicon Z contact lens related to lower silicone percentage.

THE SCIENCE BEHIND THE M.A.M.S* PROCESS

The Menicon Z material allows the manufacturing of significantly thinner lenses by lathe cutting.



• **Great wettability and reproducibility**

The **Menicon Plasma Technology** results in increased wettability and comfort of lenses.

*MAMS process:
Menicon Automated Manufacturing System



SAFETY UP TO... 30 DAY CONTINUOUS WEAR

Menicon Z hyper oxygen transmissible contact lenses give the opportunity to recommend daily wear, or longer... up to 30 day continuous wear*.

Dr. Benjamin classification



• **Menicon Z: the first GP lens to receive FDA approval for up to 30 day continuous wear⁽¹⁾.**

CONTINUOUS WEAR
HYPER DK
DK/T > 80
EOP > 18 %

As described by Dr. Benjamin⁽²⁾, Menicon Z contact lenses reach an E.O.P percentage > 18% allowing healthy continuous wear.

*Menicon Z, Menicon Z-α and Menifocal Z contact lenses are CE approved for up to 30 days continuous wear.

• **Corneal health indicators^{(3) (4) (5)}**

1 - Normal corneal epithelium desquamation

✓ Desquamation (darker areas without cells) is proportional to Dk/t value.

✓ With the hyper Dk/t Menicon Z, normal desquamation even in the closed eyes condition was observed.

2 - Minimal adherence of Pseudomonas aeruginosa

✓ In overnight studies, hyper Dk/t Menicon Z demonstrates lowest adherence levels during 12 months, compared to other materials.

3 - Normal overnight swelling rate

✓ Corneal swelling after overnight wear is similar to no lens wear.

