# Biogel<sup>®</sup> PI UltraTouch<sup>®</sup>

### Synthetic surgical glove

Biogel<sup>®</sup> PI UltraTouch<sup>®</sup> is a straw-coloured synthetic surgical glove that offers excellent barrier protection as well as fit, feel and comfort<sup>1</sup>. Biogel PI UltraTouch can be worn alone or in combination with any Biogel PI Indicator Underglove to create a Biogel Puncture Indication System with Best-in-Class puncture detection<sup>2,3</sup>. It has been tested and cleared for use with chemotherapy agents.



### Biogel key features and benefits:

- AQL\* of 0.65, determined post packaging<sup>4</sup>
- Every glove (100%) is air-inflation tested for holes typically not detected in a visual inspection<sup>5</sup>
- Low endotoxin level (<20 EU/pair), which may reduce the risk of post-operative complications<sup>4,6</sup>

### Material information

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Biogel<sup>®</sup> PI UltraTouch<sup>®</sup>

STERILE R

POWDER FREE

F

- Synthetic polyisoprene
- Biogel hydrogel polymer coating
- Straight finger and textured surface
- Beaded cuff
- Powder-free



Please refer to separate permeation sheet for breakthrough times.

### Recommended use

Recommended for all surgical procedures or surgeries where latex allergies are a concern for the patients or clinicians. It can be used alone or as part of a Biogel Puncture Indication System with a Biogel PI Indicator<sup>®</sup> Underglove for improved protection.

### **Biogel quality**

Biogel gloves are designed to be comfortable with maintained tactile sensitivity when double gloving<sup>1,7</sup>. They are manufactured using rigorous quality checks, numerous washing cycles<sup>4</sup> and air-inflation testing of every single glove<sup>5</sup>.

\*AQL=Acceptable Quality Level refers to the maximum number of defective products that could be considered acceptable during the random sampling of an inspection, in this case freedom from holes in gloves. The lower the number, the fewer the holes and the higher the glove quality.

## Biogel<sup>®</sup> PI UltraTouch<sup>®</sup>

### Ordering information REF 431

REF	Size	Pairs
43155	51/2	50/Box
43160	6	50/Box
43165	61/2	50/Box
43170	7	50/Box
43175	71/2	50/Box
43180	8	50/Box
43185	81/2	50/Box
43190	9	40/Box

4 boxes per case



### Biogel® PI UltraTouch® REF 431 – Product specifications

REF	Size	Length, mm (Tolerance ±15 mm)	Lay flat palm width, mm (±3 mm) 5.5- (+2, -4)
43155	51/2	280	74
43160	6	280	79
43165	61/2	280	85
43170	7	285	91
43175	71/2	285	97
43180	8	295	104
43185	81/2	295	108
43190	9	302	114

Typical thickness profile – single wall					
Cuff	7.9 mils	0.20 mm			
Palm	10.6 mils	0.27 mm			
Finger	11.2 mils	0.29 mm			

Biogel PI UltraTouch are tested and manufactured to the following standards			
Quality/Environment	ISO 13485, ISO 14001		
Product	EN 455-1, EN 455-2, EN 455-3, EN 455-4 ASTM D3577, ISO 10282		
Sterilisation	ISO 11137, sterilised using irradiation, SAL 10 <sup>-6</sup>		
Viral penetration	Bacteriophage Test, ISO 16604, ASTM F1671		
Allergenicity	ISO 10993 (Part 5 and 10)		
Pyrogenicity	ASTM D7102		
Labelling	EN 1041, EN 556-1, EN ISO 15223-1		
Packaging	EN ISO 11607		

Physical glove properties	Standard requirement	Biogel PI UltraTouch Typical value		
Force at break (N)				
Initial	≥9	16		
Aged	≥9	15		
Tensile strength (MPa)				
Initial	≥17	28		
Aged	≥12	26		
Modulus Stress @500% elongation (MPa)				
Initial	7.0 max	1.9		
Aged	n/a	1.9		
Elongation at break (%)				
Initial	≥650	1110		
Aged	≥490	1060		
Typical accelerator analysis (% w/w)				
Dithiocarbamate (DTC)	n/a	<0.10		
Diphenyl thiourea (DPTU)	n/a	<0.03		
Diphenylguanidine (DPG)	n/a	<0.25		
Zinc mercaptobenzothiazole (ZMBT)	n/a	<0.10		
Thiurams	n/a	none		
AQL freedom from holes (1000 ml water leak	test)			
ASTM D3577	1.5	0 / 5**		
EN 455-1	0.65	0.65**		
<b>Process average (%)</b> (Total water leak holes detected over total water leak test conducted for a year)	n/a	<0.20		
<b>Grip</b> (Measure of the surface grip. Scale of 1–5, the higher the value, the greater the level of drag)	n/a	1.5		

\*\*post packaging

### General information

**Pyrogenicity:** Each batch of Biogel gloves is tested to have a low endotoxin level (<20 EU/pair).

**Registering authority:** In Europe the gloves are CE-marked (notified body BSI, number 2797) indicating compliance with Medical Device Regulation 2017/745. They are a Class IIa product according to the Medical Device Regulation.

**Storage:** Store in a dry place at a temperature of 5-25°C, away from sources of heat or direct sunlight.

**Packaging:** One pair per pack, in a high quality inner wrap, packed into a film pack (constructed of a laminate of polyester and low-density polyethylene). 50 pairs per collation case for sizes 5.5 – 8.5; 40 pairs for size 9.0; 200 pairs per transit case for sizes 5.5 – 8.5; 160 pairs for size 9.0.

Disposal	: Gloves and	d outer wrap	may be	disposed	of as c	linical v	vaste. F	<sup>p</sup> aper i	nner
wrap, col	llation case	and transit c	ase can	be recycl	ed as p	paper oi	dispos	sed of a	as
clinical w	/aste.								

Shelf life: Three (3) years from date of manufacture.

**Manufacturer:** Made and packed in Malaysia by Mölnlycke Health Care Sdn Bhd. **Country of origin:** Malaysia

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References: 1.Collins J. J A Clinical Evaluation of Polyisoprene Biogel Orthopaedic Surgical Gloves. Design Validation DP36\_/3.6.1, Mölnlycke Health Care 2011. 2. Wigmore SJ & Rainey JB. Use of coloured undergloves to detect puncture. BJS 1994: 81:1480. 3. Glove puncture detection systems. Mölnlycke Health Care, 2017. Data on file. 4. Summary of Technical Documents. Mölnlycke Health Care. Data on File. 5. Internal SOP. Automatic Glove Inspection by QMAX. Mölnlycke Health Care. Data on File. 6. Asplund Peiro S et al. Quantitative determination of endotoxins on surgical gloves. Journal of Hospital Infection 1990; 16:167-172. 7. Fry D E et al. Influence of double-gloving on manual dexterity and tactile sensation of surgeons. J Am Coll Surg. 2010; 210(3):325-30.



### Find out more at www.molnlycke.com

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