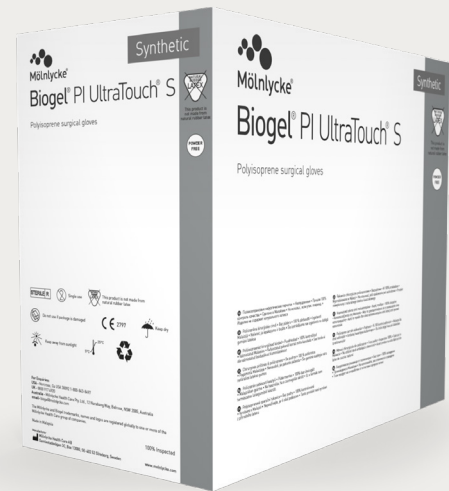


Biogel® PI UltraTouch® S

Synthetic surgical glove



Biogel® PI UltraTouch® S is a surgical glove made from synthetic polyisoprene excluding chemical accelerators known to cause skin irritation, such as Thiazoles, Thiurams, Carbamates, Thioureas and Diphenylguanidine.¹ It is also manufactured without CPC (Cetyl Pyridinium Chloride). The Biogel PI UltraTouch S provides the same great feel, comfort and protection as any Biogel glove. It can be worn alone or in combination with the Biogel PI UltraTouch S Indicator Underglove to create a Biogel Puncture Indication System with Best-in-Class perforation detection.^{2,3}



Key features and benefits:

- Manufactured without chemical accelerators known to cause skin irritation^{1*}
- Reduced risk of a hole with an industry-leading AQL** of 0.65, determined post packaging⁴
- Every glove (100%) is air-inflation tested for holes typically not detected in a visual inspection⁵
- Low endotoxin level (<20 EU/pair), which may reduce the risk of post-operative complications^{4,6}

Recommended use

An all-purpose glove recommended for all surgical procedures, particularly when the risk of latex allergy or skin irritation for the patient or clinician needs to be considered. It can be worn alone, or as part of a Biogel Puncture Indication System.

Biogel quality

Biogel has an industry-leading freedom from holes AQL of 0.65, determined post packaging. The industry standard requirement for AQL is 1.5. The lower the number, the fewer the holes and the higher the quality of glove. Biogel is proven to have the lowest glove failure rate among major competitors. A study showed that non-Biogel gloves are at least 3.5 times as likely to fail compared to Biogel gloves.⁷

*Thiazoles, Thiurams, Carbamates, Thioureas and Diphenylguanidine

** 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.

Material information

- Synthetic polyisoprene
- Manufactured without accelerators and CPC*
- Biogel hydrogel polymer coating
- Curved finger and smooth surface
- Anti-slip, beaded cuff
- Powder-free

Ordering information REF 455

REF	Size	Pairs
45555	5½	50/Box
45560	6	50/Box
45565	6½	50/Box
45570	7	50/Box
45575	7½	50/Box
45580	8	50/Box
45585	8½	50/Box
45590	9	40/Box

4 boxes per case

Biogel® PI UltraTouch® S REF 455 – Product specifications

REF	Size	Length, mm (Tolerance +20 mm; -10 mm)	Lay flat palm width, mm (±3 mm)
45555	5½	283	71
45560	6	285	77
45565	6½	285	85
45570	7	288	91
45575	7½	298	96
45580	8	299	103
45585	8½	301	109
45590	9	301	115

Typical thickness profile – single wall

Cuff	8.5mils	0.22 mm
Palm	10.2mils	0.26 mm
Finger	10.6mils	0.27 mm

Biogel PI UltraTouch S 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, EN 374-1, EN 374-2, EN 374-4, EN 16523-1, EN 374-5, ASTM D3577, ISO 10282
Sterilization	ISO 11137, Gamma Irradiation, SAL 10 ⁻⁶
Viral penetration	Bacteriophage Test, ISO 16604
Allergenicity	ISO 10993 (Part 5 and 10)
Pyrogenicity	ASTM D7102
Labeling	EN 1041, EN 556-1, EN 15223-1, EN 420
Packaging	EN ISO 11607

Physical glove properties	Standard requirement	Biogel PI UltraTouch S Typical value
Force at break (N)		
Initial	≥ 9	19
Aged	≥ 9	18
Tensile strength (MPa)		
Initial	≥ 17	25
Aged	≥ 12	23
Modulus Stress @500% elongation (MPa)		
Initial	7.0 max	2.0
Aged	n/a	2.0
Elongation at break (%)		
Initial	≥ 650	1019
Aged	≥ 490	1023
Typical accelerator analysis (% w/w)		
Dithiocarbamate (DTC)	n/a	none
Diphenyl thiourea (DPTU)	n/a	none
Diphenylguanidine (DPG)	n/a	none
Zinc mercaptobenzothiazole (ZMBT)	n/a	none
Thiurams	n/a	none
AQL freedom from holes (1000 ml water leak test)		
	1.5	0.65***
Process Average (%) (Total water leak holes detected over total water leak test conducted for a year)		
	n/a	<0.20
Grip (Measure of the surface grip. Scale of 1–5, the higher the value, the greater the level of drag)		
	n/a	1.0

*** post packaging

General information

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

Registering authority: Biogel PI UltraTouch S has 510(k) clearance in the USA. Biogel PI UltraTouch S is Class IIa product according to the medical device directive, and Class I according to FDA.

Storage: Store at room temperature; in a cool, dry place away from sources of heat or direct sunlight (recommended 5°-25°C).

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 outer wrap may be disposed of as clinical waste. Paper inner wrap, collation case and transit case can be recycled as paper or disposed of as clinical waste.

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

E-mail address: biogel@molnlycke.com

EN ISO 374-1:2014 Type C EN ISO 374-5:2016



References: 1. Final Design Verification Report. Mölnlycke Health Care. Data on File. 2. Wigmore SJ & Rainey JB. Use of coloured undergloves to detect puncture. BJS 1994; 81:1480. 3. MHC Report, Glove puncture detection systems, GMCS-2017-098. Data on file. 4. Summary of Technical Documents. Section 5. 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. In Use Surgical Glove Failure Rate Comparison. Study G009-005. Mölnlycke Health Care 2009. Data on file.

Find out more at www.molnlycke.us

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