



Mölnlycke® Health Care is a world leading manufacturer of wound care and single-use surgical products and a service provider to the healthcare sector. Mölnlycke Health Care is one of the most respected professional healthcare brands in the world, and we are particularly known for our unique, high quality range of products and innovative, patented technologies that allow patients to live better lives and help health care professionals efficiently treat more patients to better care.



Creating opportunities for the blind and visually impaired.

For more information, visit [bosma.org](http://bosma.org) or call 800-362-5463.

Bosma Enterprises®, creating opportunities for individuals who are blind or visually impaired.

Your purchases provide employment for more than 100 people who are blind.

#### References:

**1.** Reducing Surgical Site Infections. National Patient Safety Foundation. Feb. 21, 2012. **2.** <http://www.cms.gov/Newsroom/MediaReleaseDatabase/Press-releases/2013-Press-releases-items/2013-08-02.html>. **3.** Scott, Douglas R II. The Direct Costs of Healthcare – Associated Infections in U.S. Hospitals and the Benefits of Prevention. March 2009. **4.** MHC Study #G09-005. **5.** Data on File, MHC. **6.** Misteli H, et al. Surgical Glove Perforation and the Risk of Surgical Site Infection. Arch Surg. 2009; 144(6):553-558. **7.** Truscott W. “Citizens petition to the FDA to ban cornstarch powder on medical gloves.” Feb. 2009. **8.** Allmers, H. et al. Primary Prevention of Natural Rubber Latex Allergy in the German Health Care System through Education and Intervention. The Journal of Allergy and Clinical Immunology, August 2002. **9.** MHC Report #647. September 29, 2008. **10.** Data on file, MHC. **11.** Data on file, MHC. **12.** Data on file, MHC. **13.** Filon FL and Radman G. Latex Allergy: A Follow-Up Study of 1040 Healthcare Workers. OCCUP Environ Med. 2006; 63:121-125. **14.** Behrman AJ. Latex Allergy. Updated November 3 0, 2011. <http://emedicine.medscape.com/article/756632-overview>. Accessed November 27, 2012. **15.** Biogel Challenge Results, 94% of Surgeons. **16.** A Latex-Free Approach to O.R. Savings: How to make the switch. OR Today. March 2012. **17.** GHX Quarterly Report. Total Surgical Gloves Market, June 2014. **18.** Palosuo T, et al. Latex Medical Gloves: Time for a Reappraisal. Int Arch Allergy Immunol. 2011; 156: 234-246X. **19.** Thomas S. et al, Postgrad. Med. J. Intraoperative glove perforation—single versus double gloving in protection against skin contamination. 2001;77 458-460 doi:10.1136/pmj.77.909.458. **20.** Carey WD. The prevalence and natural history of hepatitis B in the 21st century. Cleveland Clinic Journal of Medicine Supplement. 2009. **21.** Boal WL, Jagger J, et al. The National Study to Prevent Blood Exposure in Paramedics: Exposure Reporting. Am J Ind Med 2008;51(3):213-22. **22.** Makary MA, Al Attar A, Holzmueller ChG, et al. Needlestick injuries among surgeons in training. N Engl J Med 2007;356:2693 2699. **23.** Statement on Sharps Safety. American College of Surgeons. June 2007. **24.** Wigmore SJ & Rainey JB, BJS 1994; 81: 1480. **25.** MHC Study REPR0355.



The Mölnlycke® Health Care and Biogel® names and logos are registered globally to one or more of the Mölnlycke® Health Care Group of Companies. Distributed by Mölnlycke® Health Care US, LLC, Norcross, Georgia 30092. © 2014 Mölnlycke® Health Care AB. All rights reserved. Lit# 1-0441 MHC-2014-2648



## Setting the standard in protection

Biogel® Surgical Gloves



# Biogel® surgical glove in-use success

*Proven durability to improve safety and increase savings in the O.R.*

Against the backdrop of an ever changing regulatory environment, reimbursement changes, hospital budget constraints, and healthcare worker shortages, the demand for healthcare services continues to rise. Improving O.R. efficiency is more important than ever to reduce costs while simultaneously improving patient outcomes and reducing infections.



Surgical glove protection is one of the many factors that work together to prevent infections in the operating room helping to reduce the risk to patients. Fewer glove failures reduces the potential risk of exposure to pathogens and associated costs of treatment.



## Proven success, proven durability

Biogel® gloves are less likely to fail than competitors because of their quality and durability.<sup>4</sup> The cost of quality is lower than you might think. Using high quality surgical gloves that fail less can reduce total glove usage in a facility significantly reducing costs and glove waste.



Centers for Disease Control and Prevention (CDC) estimates that as many as 500,000 surgical site infections (SSIs) occur annually<sup>1</sup>, a rate representing as much as 22% of total healthcare-associated infections (HAIs).

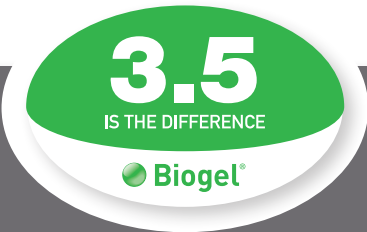
The Affordable Care Act includes Medicare Quality Programs that penalize or reward hospitals for meeting specific quality initiatives such as reducing Hospital-acquired Conditions (HAC), reducing high readmission rates, and 24 other defined quality measures. Hospitals are at risk of losing up to a total of 5.4% of Medicare payments. An estimated \$1.1 billion will be redistributed based on hospitals' performance on quality measures.<sup>2</sup>



*The average cost of one surgical site infection today is approximately \$25,546<sup>3</sup>*

## In-use success

Surgical glove suppliers differ substantially when comparing their in-use failure rate performance. A surgical staff-based observational research study comprised of five facilities from across the United States was implemented to analyze glove performance during surgical procedures to uncover in-use failure rates of surgical gloves.<sup>4</sup>



*The results were statistically significant, concluding:*

**Competitive surgical gloves were at least 3.5 times as likely to fail in-use compared to Biogel gloves.<sup>4</sup>**



# Surgeons and clinical staff have come to trust the protection only Biogel® provides

Ever since Biogel® sold the world's first powder-free surgical glove in 1983, we have been setting the standard for surgical glove protection. Biogel is the world's leading brand name in high quality, technically advanced surgical gloves. Our manufacturing facilities test Biogel surgical gloves through 13 distinct quality gates to ensure superior quality. These include mechanical, chemical and microbiological testing.

Every single glove is 100% air-inflated and visually inspected for holes<sup>5</sup>



## Holes in surgical gloves can result in more infections<sup>6</sup>

- Biogel gloves have an industry leading freedom from holes (AQL: 0.65)<sup>5</sup>
  - The industry standard requirement for Acceptable Quality Level (AQL) is 1.5
  - The actual process average for Biogel is <0.20%
- Biogel gloves exceed industry standards for: Force at break, Tensile strength and Elongation<sup>5</sup>
- Biogel gloves are shipped in air-conditioned containers from the factory to preserve optimal storage conditions

# Clinicians prefer Biogel® gloves



Beyond protection, fit, feel, and comfort are the most important features to surgeons in a surgical glove. Avoiding hand fatigue, maintaining tactile dexterity and sensitivity are important attributes to avoid unnecessary distractions in surgery.

Biogel® offers a full range of synthetic and latex gloves to meet the variety of surgeons and staff needs.

With the facility's goals in mind, our sales specialists work with each clinician to match the right material, features, and size to the right individuals.

When offered a choice, most clinicians will choose Biogel.

## Biogel coating makes donning easy

The world's first polymer coating with hydrophilic properties that conforms to the hand like a second skin.

9/10 surgeons agree that Biogel gloves are high quality and provide the durability they need throughout procedures<sup>10</sup>

## Powder-free

Powdered gloves can cause postoperative adhesions, granulomas, delayed wound healing, increased risk of infection and occupational asthma.<sup>7</sup>

- High protein levels in latex gloves may also cause latex allergy<sup>8</sup>

*All Biogel latex gloves have exceptionally low extractable protein levels<sup>9</sup>*

## Non-pyrogenic

Endotoxins/Pyrogens present on sterile gloves can be transferred and result in post-op complications and associated costs.

Because minute endotoxin/pyrogen contamination can cause serious reactions including fever, inflammation and even death, the FDA recommends all implantable surgical devices and IV devices be non-pyrogenic.

Biogel is the only major surgical glove brand with a non-pyrogenic range<sup>10</sup>

## Exceptional service

Mölnlycke® surgical sales specialists are trained extensively to make converting to Biogel surgical gloves seamless and worry-free. Our clinical nurse specialists are available to support evaluations and conversions and deliver continuing education programs on important healthcare topics such as infection prevention, recommended practices, and the proper use of medical products. Our team works with each facility's goals to provide recommendations for how to increase O.R. efficiency and safety through glove standardization, latex-free initiatives and glove waste elimination.

- **Over 99%** of Biogel Inventory has been available at all times for the past 4 years<sup>11</sup>
- **10,000** hours of continuing education credit hours delivered on average every year<sup>12</sup>



# Why choose latex-free?

Natural rubber latex has been a staple in surgical glove manufacture for many years. Synthetic glove materials with a fit, feel, and comfort similar to latex offer a much needed alternative as latex allergies become more prevalent.

*Latex can compromise patient and staff safety*

*Latex allergy is present in 1-5% of general population<sup>14</sup>*



## No compromise on comfort

Previous generation synthetic gloves compromised dexterity and sensitivity, but new research shows that most physicians find synthetic gloves as effective and comfortable as their latex equivalents.

**94%**

*of surgeons rated the comfort of Biogel® PI synthetic gloves as good or better than Biogel® Latex<sup>15</sup>*



**Biogel synthetic gloves can help prevent latex sensitization and anaphylactic reactions and avoid costly O.R. teardowns**

**34%**

*of O.R. staff are latex-sensitive<sup>13</sup>*

Latex allergies may cause reactions ranging in severity from skin redness or a rash to sneezing or even anaphylaxis, a potentially life-threatening condition. While staff members will be well aware if they have a latex allergy, patients may not be. Due to the possible life-threatening outcomes, precautions must be taken. This means if latex gloves are worn during the set-up of the O.R. and an unexpected patient latex allergy is identified, a complete new set-up is required resulting in wasted materials, staff time and costly idle O.R. time.

## Operating Room teardown costs

Moving to synthetic surgical gloves in the O.R. setting significantly reduces the potential health risk to patients and staff and delivers time and cost efficiencies to the hospital.

- One hospital analysis showed O.R. teardowns totaled **\$96,720** for their facility per year<sup>16</sup>
- Costs included resterilization, idle O.R. time, staff time and wasted disposables

## Latex-free, a growing choice for more and more facilities

Approximately half of surgical gloves sold in the U.S. are synthetic and this number is growing while the latex glove category is declining.<sup>17</sup> Major facilities such as the Johns Hopkins Medical Center and the Cleveland Clinic have banned the use of latex gloves.<sup>18</sup> Choosing synthetic gloves can be a cost-effective option to avoid latex allergy-related financial risks.

# There's never been a stronger reason to double-glove

An unbelievable 92% of glove punctures go unnoticed during surgery, putting surgeons, operating staff and patients at risk for cross infection.<sup>20</sup> Medical professionals are exposed to the risk of blood-borne pathogen transmissions in every surgery.

- Every year, 385,000 sharps injuries occur to U.S. healthcare workers<sup>21</sup>
- 99% of polled surgeons said they had suffered at least one needlestick in their career<sup>22</sup>
- The risk of occupational exposure to hepatitis B and C continues to increase<sup>23</sup>

*Double-gloving reduces chances of needlestick injury by up to*

**82%**<sup>19</sup>



*The Biogel® Puncture Indication System™ detects up to*  
**97%**  
*of punctures<sup>24</sup>*



*Double-gloving is proven to reduce risks of sharps injuries and exposure to bloodborne infections and is recommended by the American College of Surgeons as well as numerous other organizations.<sup>23</sup>*

**Biogel® Indicator® Undergloves** are engineered to provide the optimum level of contrast with Biogel® overgloves, indicating punctures faster and more clearly.<sup>25</sup> If the top glove is punctured, fluid penetrates between the two gloves, and a dark patch alerts the wearer to the puncture. **Biogel gloves are specifically designed with double donning in mind.**

Biogel's Indicator double-gloving system was the first patented, effective puncture indication system in the world. Biogel offers both latex and synthetic indicator undergloves that indicate with a variety of Biogel overgloves, allowing you to create your own customized double-gloving system.



Biogel® Synthetic Polyisoprene Glove Range

NATURAL  
RUBBER  
LATEX

POWDER  
FREE

Synthetic Polyisoprene

A sterile, powder-free, synthetic polyisoprene glove that eliminates the possibility of glove-related latex protein sensitization because it is made from a synthetic elastomer. The glove provides levels of fit, feel and comfort comparable to natural rubber latex because synthetic polyisoprene shares a similar molecular structure to natural rubber latex.



Biogel® PI  
Micro



Biogel® PI  
UltraTouch®



Biogel® PI  
UltraTouch® G



Biogel® PI  
UltraTouch® M



Biogel® PI



Biogel® PI  
Pro-Fit®



Biogel® PI  
OrthoPro®



Biogel® PI  
Indicator® Underglove



Biogel® PI Micro  
Indicator® Underglove

Description	Enhanced tactile sensitivity	Enhanced sensitivity and softness	Enhanced sensitivity and softness with extra grip	Enhanced sensitivity and softness with extra grip and control	Enhanced softness and medium thickness	Reduces hand and thumb fatigue during surgery	Thicker for increased protection	For use alone or as part of a Puncture Indication System	For use alone or as part of a Puncture Indication System
Color	Straw Color	Straw Color	Straw Color	Straw Color	Straw Color	Straw Color	Brown Color	Blue for Puncture Indication	Blue for Puncture Indication
Item Number	71-ML48555 - 71-ML48590	71-41155 - 71-41190	71-ML42155 - 71-ML42190	71-ML42655 - 71-ML42690	71-40855 - 71-40890	71-ML47960 - 71-ML47990	71-ML47660 - 71-ML47690	71-ML41655 - 71-ML41690	71-ML48955 - 71-ML48990
Thickness	8.3 mils*	10.6 mils*	10.6 mils*	11.2 mils*	12.2 mils*	10.6 mils*	13.8 mils*	11.0 mils*	8.3 mils*
Grip	1.5	1.0	1.5	1.5	1.0	1.5	1.5	1.0	1.0
Finish	Micro-roughened Surface	Micro-roughened Surface	Micro-roughened Surface	Micro-textured Surface	Micro-roughened Surface	Micro-roughened Surface	Micro-roughened Surface	Smooth Finish for Double Donning	Smooth Finish for Double Donning
Former	Curved Former	Curved Former	Curved Former	Straight Former	Curved Former	Biomechanically Optimized Former	Biomechanically Optimized Former	Curved Former	Curved Former
Cuff	Anti-Slip, Beaded Cuff	Anti-Slip, Beaded Cuff	Anti-Slip, Beaded Cuff	Beaded Cuff	Anti-Slip, Beaded Cuff	Anti-Slip, Beaded Cuff	Extended, Beaded Cuff	Beaded Cuff	Beaded Cuff
Sizes	5.5-9.0	5.5-9.0	5.5-9.0	5.5-9.0	5.5-9.0	6.0-9.0	6.0-9.0	5.5-9.0	5.5-9.0
Quantities	50 Pairs per box/4 boxes per Case 40 pairs per box for size 9	50 Pairs per box/4 boxes per Case 40 pairs per box for size 9	50 Pairs per box/4 boxes per Case 40 pairs per box for size 9	50 Pairs per box/4 boxes per Case 40 pairs per box for size 9	50 Pairs per box/4 boxes per Case 40 pairs per box for size 9	50 Pairs per box/4 boxes per Case 40 pairs per box for size 9	40 Pairs per box/4 boxes per Case	50 Pairs per box/4 boxes per Case 40 pairs per box for size 9	50 Pairs per box/4 boxes per Case 40 pairs per box for size 9
Ideal Use	For use in all surgeries where tactile sensitivity is desired.	For use in all surgeries.	For use in microvascular, cardiothoracic, ENT, plastic, neurosurgical, gynecological and general surgical procedures.	For use in microvascular, cardiothoracic, ENT, plastic, neurosurgical, gynecological and general surgical procedures.	For use in all surgeries.	For use in all surgeries. It can be used alone or as an overglove with Biogel® PI OrthoPro®.	For use in all orthopaedic surgeries, where robust barrier protection is necessary.	For use in all surgeries. Specially designed for ease in double-gloving.	For use in all surgeries. Specially designed for ease in double-gloving and enhanced tactile sensitivity.

\*Finger Thickness  
Single Wall, typically

94% of surgeons rated the comfort of Biogel® PI synthetic gloves as good or better than Biogel® latex<sup>17</sup>

Biogel® Latex Glove Range



Natural Rubber Latex

A sterile, powder-free, natural rubber latex glove. All Biogel® latex gloves have exceptionally low extractable protein levels and low endotoxin levels (<0.5 EU/mL).



Biogel® Surgeons



Biogel® Eclipse®



Biogel® Super-Sensitive®



Biogel® M



Biogel® Sensor®



Biogel® Optifit® Orthopaedic



Biogel® Indicator® Underglove



Biogel® Diagnostic

Description	Provides excellent barrier protection	30% softer with enhanced sensitivity	Enhanced tactile sensitivity with flexibility and manual dexterity	Specially treated surface for extra grip and control	Enhanced tactile sensitivity with a textured surface for a positive grip
Color	Straw Color	Straw Color	Straw Color	Straw Color	Straw Color
Item Number	71-30455 - 71-30490	71-75255 - 71-75290	71-82555 - 71-82590	71-30555 - 71-30590	71-30655 - 71-30690
Thickness	10.6 mils*	9.4 mils*	8.5 mils*	11.0 mils*	9.1 mils*
Grip	1.0	2.0	2.0	2.0	2.5
Finish	Micro-roughened Surface	Micro-roughened Surface	Micro-roughened Surface	Micro-textured Surface	Micro-textured Surface
Former	Curved Former	Curved Former	Curved Former	Straight Former	Straight Former
Cuff	Beaded Cuff	Anti-Slip, Beaded Cuff	Beaded Cuff	Beaded Cuff	Beaded Cuff
Sizes	5.5-9.0	5.5-9.0	5.5-9.0	5.5-9.0	5.5-9.0
Quantities	50 Pairs per box/4 boxes per Case 40 pairs per box for size 9	50 Pairs per box/4 boxes per Case 40 pairs per box for size 9	50 Pairs per box/4 boxes per Case 40 pairs per box for size 9	50 Pairs per box/4 boxes per Case 40 pairs per box for size 9	50 Pairs per box/4 boxes per Case 40 pairs per box for size 9
Ideal Use	For use in all surgeries.	For use in all surgeries especially for neurosurgical, plastics and cardiac.	For use in all surgeries especially for neurosurgical, cardiac, transplant and vascular.	For use in ophthalmic, microvascular, cardiothoracic, ENT, plastic, neurosurgical, gynecological.	For use in all surgeries especially for procedures where sensitivity and fingertip control are crucial.

\*Finger Thickness  
Single Wall, typically  
  
\*\*Breakthrough testing times  
are available by request

Biogel® Synthetic Polychloroprene Glove Range



Synthetic Polychloroprene

A sterile, powder-free, synthetic polychloroprene glove that reduces the possibility of glove-related latex protein sensitization because it is made from a synthetic elastomer.



Biogel® NeoDerm®



Biogel® Skinsense®



Biogel® Skinsense® Indicator® Underglove

Low dermatitis potential	Provides extra protection due to longer chemical breakthrough time	For use alone or as part of a Puncture Indication System
Khaki Color	Straw Color	Blue for Puncture Indication
71-ML42955 - 71-ML42990	71-31455 - 71-31490	71-40655 - 71-40690
8.7 mils*	8.3 mils*	8.3 mils*
1.5	1.5	1.0
Micro-roughened Surface	Micro-roughened Surface	Smooth Finish for Double Donning
Curved Former	Curved Former	Curved Former
Beaded Cuff	Beaded Cuff	Beaded Cuff
5.5-9.0	5.5-9.0	5.5-9.0
50 Pairs per box/4 boxes per Case 40 pairs per box for size 9	50 Pairs per box/4 boxes per Case 40 pairs per box for size 9	50 Pairs per box/4 boxes per Case 40 pairs per box for size 9
For use in all surgeries or where extended protection against chemicals or cytotoxic drugs is required.**	For use in all surgeries or where extended protection against chemicals or cytotoxic drugs is required.**	For use in all surgeries or where extended protection against chemicals or cytotoxic drugs is required.** Specifically designed for ease in double-gloving.

All Biogel latex gloves have exceptionally low extractable protein levels.⁹