

Surgical Gloves

A comprehensive guide



**Selection
Support
Solutions**

Why Medline surgical gloves?

More than a glove company

For hospitals around the world, managing cost pressures while providing safe, quality healthcare, has become an increasing challenge.

As one of the world's largest manufacturers and distributors of medical products in major OR categories, like sterile procedure trays (SPTs), surgical drapes, gowns and gloves, Medline understands your challenges. And with roots going back over a century and a dedicated sales force of over 130 representatives in Europe, we have the expertise to help you implement clinical solutions, achieve supply chain efficiencies, manage costs, and improve outcomes.

In this brochure, you'll find more than just information about our comprehensive portfolio of premium surgical gloves. You'll also discover the latest surgical glove technologies, safety initiatives, market trends and clinical services Medline offers. We're more than a glove company, and we invite you to see why Medline is the fastest growing supplier of surgical gloves, and choice for many of the most prestigious hospitals around the world.



Industry-leading quality

Medline's products and manufacturing facilities are subject to a higher level of quality control, exceeding FDA, ASTM, EN, and ISO standards, as part of our continued effort to help keep patients and surgical staff safe from cross-contamination, infections and allergic reactions.

Process control and quality are carefully monitored throughout every step of our manufacturing process, and our highly trained quality assurance team thoroughly inspects for dimensional consistency (thickness and length) and physical property consistency (strength and elasticity).

Your surgical staff can feel confident knowing that every single surgical glove we produce is 100% inspected for pinholes, tears, visual defects, and tested for a manufacturing AQL of 0.65. We address Type I and Type IV allergies, providing gloves that are low in residual chemicals, thanks to our proprietary triple-stage protein and chemical washing process.

Packaging and inspection

- 100% visual inspection and air inflation test
- Physical property testing
- Protein and powder content testing
- Packaging and visual seal inspection
- Final quality inspection
- Gamma radiation sterilisation

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Simplifying the switchover for everyone

We understand that surgical gloves are clinically sensitive and surgeons have individual product preferences, making change difficult in some cases. And if you're willing to evaluate and consider switching to our gloves, we believe we should make the process as simple and efficient as possible for you and your surgical staff.

Our Evaluation and Conversion Management Programme is an organised approach that combines the planning, communication, clinical support and education you deserve.

Step 1: Overview

Your Medline sales representative meets with key decision makers to provide an overview including:

- Surgical glove portfolio
- Samples
- Literature
- Customised cross-reference including powder-free and latex-free options
- Cost analysis showing the impact of switching to Medline

Step 2: Objective

The objective is to understand and align each other's goals and expectations to ensure a positive outcome for both parties.

Step 3: Communication

Medline provides customised letters and posters to properly communicate the evaluation.

Step 4: Glove preview

Medline hosts a 'glove preview' day to introduce the options, before the evaluation, to identify any special needs.

Step 5: Evaluation

Your Medline sales representative and a glove specialist will be on-site during the evaluation to:

- Detail the clinical advantages of our portfolio
- Assist in sizing and selection
- Educate staff on recent glove safety trends and technological improvements
- Address any questions or concerns.

Step 6: Feedback

Throughout the evaluation, we will update key department heads and collect evaluation forms. The feedback we receive allows us to work with anyone in your facility, who has not been able to find a suitable glove option.

Step 7: Action plan

At the conclusion of the evaluation, Medline will present your key decision makers with copies of the evaluation forms, a summary of results and an action plan for conversion.

Visual packaging helps you find the right glove more quickly

Unique horizontal bar colour scheme makes it easy for staff to identify the correct glove, no matter how they're stored

Easy-access, triangular dispenser opening with large pull tabs for unobstructed access

Dispenser label clearly identifies additional important information, including glove size, reorder number, barcode, lot number and manufacturing/expiration dates



Most of our gloves are packaged in an environmentally friendly, space-saving, double-folded polyethylene pouch

Product name, material and description are highlighted front and centre with large and readable text

Inclusion of a latex or latex-free symbol ensures staff select the correct glove, depending on patient or staff allergies

Aloetouch® makes hands feel better

The soothing and moisturising effects of aloe vera have been renowned for many years. However, it wasn't until 1999, when Medline patented a revolutionary process to bring the moisturising properties of aloe vera to medical gloves, that the healthcare industry realised the advantages.

Aloetouch technology works by extracting 100% pure organic aloe vera gel directly from the plant, freeze-drying it, and evenly coating the inner surface of the glove. Body heat activates the aloe coating to create a moisturising experience.

The preferred glove

- **Hospital surveys:** Respondents preferred Aloetouch gloves to their current glove and noticed a significant difference in how their hands felt after the trial period.
- **Independent clinical studies:** These demonstrated the efficacy of aloe-coated gloves in moisturising and improving skin condition.
- Today, Medline is the world's leader in moisturising medical gloves, with billions of aloe-coated exam and surgical gloves used since their introduction in 1999.

Try Aloetouch technology in our Signature Latex Green and SensiCare PI Green gloves.



Importance of double gloving

The risk of exposure to blood-borne pathogens is a major concern for surgeons and operating theatre staff. Although often undetectable to the human eye, even micro perforations in surgical gloves are large enough to allow pathogens to pass between the glove wearer and the patient and cause infection. Double gloving, using dark-coloured undergloves, is a proven method that can help reduce these risks.

Double gloving to reduce surgical cross-infection

- Cochrane reviewed a large number of randomised control trials (RCTs) covering a range of gloving options, including double gloving and perforation indicator systems. 'Double gloving (wearing 2 sets of gloves) is common, especially for orthopaedic and dental surgeries ... The review found that a second pair of gloves does protect the inner pair, without apparently affecting surgical performance ...'¹

How does the double gloving system work?

- The wearer dons the specially designed darker coloured underglove as the first layer in protection, followed by a light-coloured or translucent overglove.
- In the event that the outer glove is breached during surgery, blood and other fluids seep between the two glove layers, and the contrasting colour of the dark-green underglove alerts the wearer to change gloves.
- Changing gloves immediately after the breach minimises the risk of transmission of pathogens between the wearer and the patient

Benefits and features:

- Improves protection and speeds up identification of perforations
- Minimises hand fatigue due to construction on our surgeon preference-inspired formers
- Available in latex, synthetic polyisoprene, and accelerator-free neoprene options
- Moisture for the skin is provided via powder-free and aloe vera-coated Signature Latex Green and SensiCare® PI Green models

See green for safety





DermAssure® Green:

Reap the benefits of an accelerator- and latex-free experience

First, there were powder-free surgical gloves. Then, there were surgical gloves made without natural rubber latex. Now, there is Medline DermAssure Green—an advanced surgical glove made without natural rubber latex, powder or chemical accelerators to enhance performance and promote safety during double gloving.

Advancing comfort and tactile sensitivity

DermAssure Green is manufactured with a technologically advanced formulation that is free of chemical accelerators, but still provides the outstanding comfort and performance you expect and need.

DermAssure Green is made with next-generation, synthetic materials for a soft feel and enhanced tactile sensitivity. The secret to DermAssure's success is a new polychloroprene formulation that provides an enhanced fit and flexibility to reduce hand fatigue. This further allows for more natural movement, compared to current accelerator-free, synthetic gloves.

Advancing comfort and tactile sensitivity



1947
First surgical glove to contain powder, natural rubber latex and chemical accelerators



1983
First powder-free surgical glove but still contains natural rubber latex and chemical accelerators



1990s
First surgical glove made without powder and natural rubber latex, but still containing accelerators



2016
Medline introduces next-generation surgical glove made without powder, natural rubber latex and chemical accelerators

● Powder ● Latex ● Accelerators



Excellent tactile sensitivity

Durable yet thinner than traditional surgical gloves, DermAssure provides outstanding tactile sensitivity to help maintain manual dexterity throughout the procedure



No more cuff roll down

Designed with ARC (anti-roll down cuff) technology to reduce cuff roll down, which is common among many surgical gloves



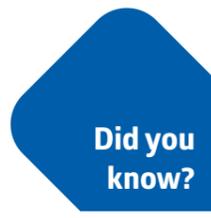
Outstanding comfort

New, advanced polychloroprene formulation gives DermAssure flexibility and softness, making it comfortable to wear, even during lengthy procedures; made with formers of improved design to enhance comfort

Universal application

Ideal for general surgery as an underglove or by itself; for use in any surgery where staff members may have sensitivities to chemical accelerators





Isolex polyisoprene:

Liquid synthetic latex emulsion

Isolex is Medline's proprietary formulation of polyisoprene, a raw material used to manufacture latex-free surgical gloves. As the industry transitions from latex, clinicians have the need for a glove that has the soft, comfortable fit and feel of latex but without the danger of Type I allergic reactions. Isolex is the ideal solution to bridge the gap between safety and performance in a surgical glove.

Safety

Isolex polyisoprene is a synthetic alternative to natural rubber latex

- Eliminates risk of developing Type I latex allergies
- Water-based emulsion of cis-polyisoprene
- Eliminates harmful impurities associated with latex

Performance

Molecular structure virtually identical to NRL

- Soft, comfortable fit and feel
- Ideal for when exceptional tactile sensitivity is required
- Improved batch-to-batch consistency when compared to latex

Supply Chain Control

Medline is with you every step of the way

From the time the vats of raw materials are received to the time a surgeon dons a surgical glove in the OR, Medline is taking care to ensure quality and support. And unlike competitors, we are able to provide outstanding technical support, customer service and high-performing solutions, based on clinical feedback from the market.

Automation

Minimising risks: Over 700 process parameters are analysed

- 24/7 monitoring of proprietary control system logic ensures that process parameters stay within ideal ranges.
- Production reports containing pertinent information (throughput, process stream variance etc.) are automatically compiled and emailed, allowing for identification of process trends.

Quality

A proprietary formulation with end users' performance in mind

- Made with only the safest ingredients to reduce allergies, it is free of DPG, a chemical found in many polyisoprene gloves.
- It is ideal for use with a wide variety of chemicals and bone cement. *Testing available on request.
- Every lot produced undergoes rigorous QA testing for tensile strength, modulus, elongation, tear, viscosity, surfactant loading and mechanical stability—to demonstrate suitability for release.

Reap the benefits of going latex-free

Concern over the complications of latex allergies is driving many healthcare facilities to eliminate latex-based products, particularly gloves, from their supplies. Although powder-free latex gloves can help avoid many complications, even low-protein, powder-free, latex gloves are not completely safe. Therefore, **implementing a completely latex-free environment by switching to synthetic alternatives is the only way to truly eliminate latex-related risks.** It is a sustainable step to take when maintaining the status quo means ignoring more beneficial synthetic options and facilitating risks and a range of hidden costs.

Get the facts about latex allergies

- As a healthcare worker, continued exposure to latex increases your risk of developing the allergy, and there is no cure.
- In addition to healthcare workers, children with spina bifida, people with urinary tract abnormalities and those who undergo multiple surgeries or medical procedures, are more likely to develop a latex allergy due to more frequent exposure.
- Symptoms include watery or itchy eyes, runny nose, sneezing, wheezing, hives, welting, rashes, itching and swelling.
- Severe reactions (anaphylactic shock) can cause breathing problems, chest tightness, swelling of the throat or tongue and even death.
- Powder-free latex gloves may be low in proteins but can still cause reactions and should never be used on anyone with a latex allergy.

The hidden costs of latex

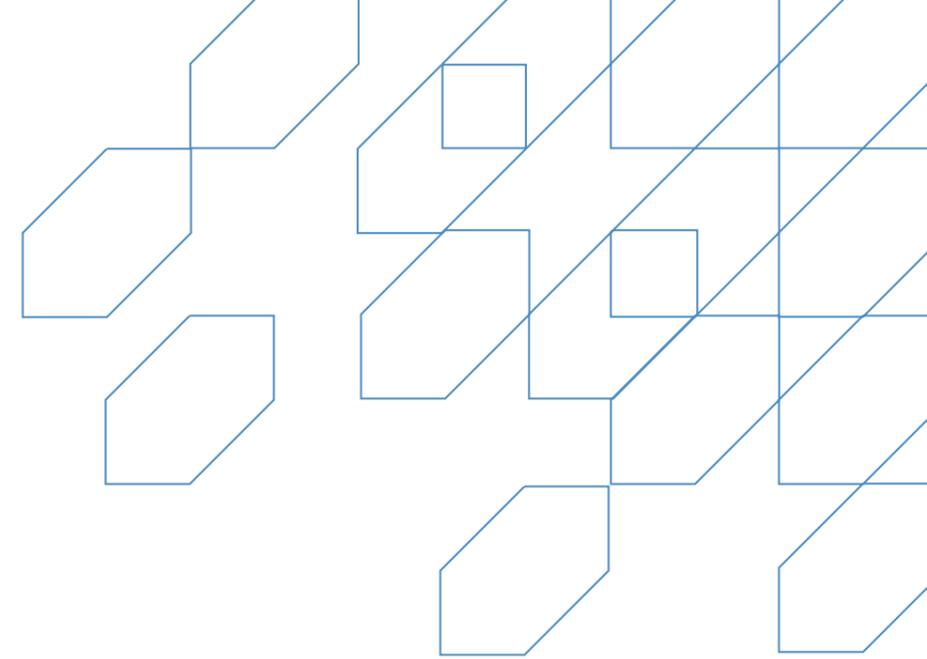
- Additional OR-teardown costs
- Contaminated disposable products and implants
- Idle OR time while a theatre is decontaminated
- Re-sterilisation for reusable products
- Occupational health visits and medical treatment for staff
- Worker's compensation claims



Portfolio: Latex-free options

Medline offers a comprehensive portfolio of surgical gloves to meet each surgeon's preference. We offer a wide range of polyisoprene and polychloroprene (neoprene) latex-free gloves that are suitable for every type of surgery. All our powder-free gloves are treated with a proprietary polymer coating to ensure effortless donning with dry or damp hands.

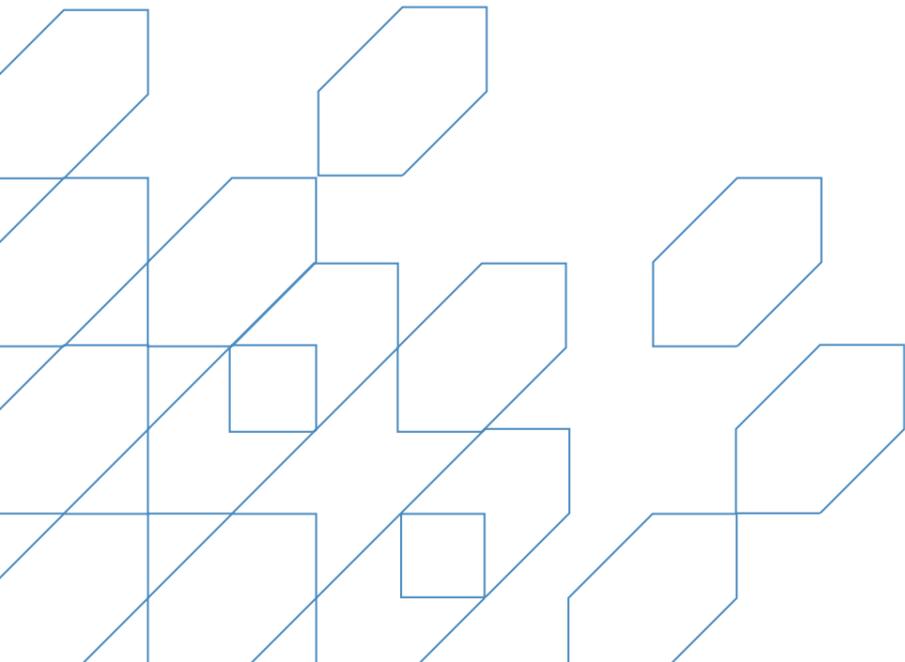
- **Neolon® 2G** is our standard neoprene glove and is ideal for general surgery and those with skin sensitivities. It has great chemical resistance and is lightly textured for a supreme grip.
- **DermAssure Green** is a neoprene glove that is latex-free, powder-free and accelerator-free, making it the best choice for those with allergic reactions to other gloves. Its dark-green colour also makes it an ideal underglove when double gloving.
- **SensiCare PI** offers the fit and performance of latex without the potential side effects associated with proteins.
- **SensiCare PI Micro** has the same features as SensiCare PI, but is even thinner, which makes it perfect for tactile sensitivity.
- **SensiCare PI Green** is a specialty dark-green underglove with our proprietary moisturising Aloetouch technology and is great for cardiac, trauma, orthopaedic, and high risk procedures.
- **SensiCare PI Evolution** is an economical option made from a polyisoprene blend. It is a flexible glove, which is great for general surgery.



Portfolio: Latex-based options

Medline also offers a wide array of latex-based gloves to fit every need. From micro thin outer gloves to dark-green undergloves and everything in between, we are sure to have a latex glove suited to each user's preference.

- **Signature Latex Essential** has a proprietary polymer coating for superior donning and flexibility. It is ideal for general surgery and makes a great outer glove option when double gloving.
- **Signature Latex Micro** offers the same features as Signature Latex Essential with an even higher level of tactile sensitivity, making it perfect for neurological, vascular, plastic, and eye surgeries.
- **Signature Latex** is a smooth, tan glove that offers comfort, performance and protection, and is great for general surgery. It also has a proprietary polymer coating, which increases the ease of donning and acts as a barrier between the latex material and the skin, decreasing exposure to proteins.
- **OR Standard PF** is a smart, economical alternative to powdered latex.
- **Signature Latex Green** is a dark-green underglove made with Aloetouch technology (see pg. 6 for benefits of aloe). With a sharp look and a great feel, it is perfect for cardiac, trauma, orthopaedics, and high-risk procedures.





Increase efficiency and uncover savings with glove utilisation analysis

Consultative solutions

Disposable gloves rank among hospital supplies with the highest volume. And with various departments, a range of clinical tasks and different individuals requiring specific types and sizes of gloves, the number of SKUs and suppliers can add up quickly. Before you know it, managing the inventory becomes a challenge. Fortunately, Medline, as a world leader in exam and surgical gloves, can help you optimise your selection.

Following a paper-based audit and an on-site walk-through of your facility, we'll provide you with a detailed analysis of your current glove usage along with opportunities for SKU reduction/elimination, vendor standardisation and cost savings. We'll also point out opportunities to implement newer or safer glove options.

Item index

	Description	Packaging	5.5	6	6.5	7	7.5	8	8.5	9	
LATEX-FREE	Neolon 2G*	50/bx, 200/cs	MSG6055	MSG6060	MSG6065	MSG6070	MSG6075	MSG6080	MSG6085	MSG6090	
	DermAssure Green*	50/bx, 200/cs	MSG6555I	MSG6560I	MSG6565I	MSG6570I	MSG6575I	MSG6580I	MSG6585I	MSG6590I	
	SensiCare PI Evolution*	50/bx, 200/cs	MSG9555	MSG9560	MSG9565	MSG9570	MSG9575	MSG9580	MSG9585	MSG9590	
	SensiCare PI Micro^^	50/bx, 200/cs	MSG9655	MSG9660	MSG9665	MSG9670	MSG9675	MSG9680	MSG9685	MSG9690	
	SensiCare PI^^	50/bx, 200/cs	MSG9055	MSG9060	MSG9065	MSG9070	MSG9075	MSG9080	MSG9085	MSG9090	
	SensiCare PI Green^^	50/bx, 200/cs	MSG9255	MSG9260	MSG9265	MSG9270	MSG9275	MSG9280	MSG9285	MSG9290	
LATEX	OR Standard*	50/bx, 200/cs	MSG4155	MSG4160	MSG4165	MSG4170	MSG4175	MSG4180	MSG4185	MSG4190	
	OR Standard PF*	50/bx, 200/cs	MSG5255	MSG5260	MSG5265	MSG5270	MSG5275	MSG5280	MSG5285	MSG5290	
	Signature Latex Essential*	50/bx, 200/cs	MSG5955	MSG5960	MSG5965	MSG5970	MSG5975	MSG5980	MSG5985	MSG5990	
	Signature Latex Micro*	50/bx, 200/cs	MSG5855	MSG5860	MSG5865	MSG5870	MSG5875	MSG5880	MSG5885	MSG5890	
	Signature Latex*	50/bx, 200/cs	MSG5455	MSG5460	MSG5465	MSG5470	MSG5475	MSG5480	MSG5485	MSG5490	
	Signature Latex Green*	50/bx, 200/cs	MSG5555	MSG5560	MSG5565	MSG5570	MSG5575	MSG5580	MSG5585	MSG5590	



* These gloves are PPE certified and compliant with current standards to ensure extra protection for the user.
 ^ These gloves are made with Medline's proprietary Isolex polyisoprene (see pg. 12 - 13 for more information).



Medline recognises and is concerned about how our products and operations affect the local, regional and global environment. We are, therefore, committed to continuously improving our environmental performance.

We regard local environmental laws and regulations as the minimum level for measuring our environment performance. In addition, we understand that waste management is a key element of our corporate environment strategy, and recognise the need to use materials derived from sustainable sources and recyclable packaging materials wherever possible.

And in view of the above, we have optimised the dimensions and weight of our packaging to increase transportation efficiency, thereby, helping to reduce our products' carbon footprint.

For more information on our products, please contact your Medline account manager or visit us at: uk.medline.eu



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*Tanner J; Parkinson H, (2009) Double gloving to reduce surgical cross-infection (Review). Cochrane Database of Systematic Reviews 2006, Issue 3. Art. No.: CD003087. DOI: 10.1002/14651858.CD003087.pub2.

Surgical gloves are class IIa sterile medical devices intended to be used by healthcare professionals. Before use, consult instructions and precautions on the corresponding labelling.



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