



***SOLUTIONS, SUPPORT,  
SELECTION.***

**Surgical Gloves**  
A Comprehensive Guide



# WHY MEDLINE SURGICAL GLOVES?

## MORE THAN A GLOVE COMPANY

For hospitals around the world, managing cost pressures while providing safe, quality health care has become an increasing challenge. As one of the world's largest manufacturers and distributors of medical products including major OR categories like sterile procedure trays, surgical drapes and gowns, and surgical gloves, Medline understands your challenges. With roots going back over 100 years 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 surgical glove supplier and the choice for some of the most prestigious hospitals around the world.

# INDUSTRY-LEADING QUALITY

Our 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, infection and allergic reaction. 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 to 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 & Air Inflation Test
- Physical Property Testing
- Protein & Powder Content Testing
- Packaging & Visual Seal Inspection
- Final Quality Inspection
- Gamma Radiation Sterilisation

## TABLE OF CONTENTS:

- |   |  |
|---|--|
| <p>04   DOUBLE GLOVING<br/>Why is Double Gloving Important?</p> <p>05   CONSULTATIVE SOLUTIONS &amp; CLINICAL SUPPORT<br/>Increase Efficiency and Uncover Savings with a Glove Utilisation Analysis</p> <p>06   EVALUATION &amp; CONVERSION MANAGEMENT PROGRAM<br/>Making the Process of Switching Easier for You and Your Staff</p> <p>07   PACKAGING<br/>Visual Packaging Helps You Find The Right Glove More Quickly</p> <p>08   ALOE VERA<br/>Experience the Soothing and Moisturizing Benefits of Aloe Vera First Hand</p> | <p>09   THE BENEFITS OF LATEX FREE<br/>Latex Safety</p> <p>10   DERMASURE GREEN<br/>Reap the Benefits of going Accelerator-Free (and Latex-Free)</p> <p>12   PORTFOLIO<br/>Latex-Free options</p> <p>13   ISOLEX<br/>Medline's Home Grown Formulation of Polyisoprene</p> <p>14   PORTFOLIO<br/>Latex options</p> <p>15   ITEM INDEX</p> <p>16   MEDLINE CARES</p> |
|---|--|



# WHY IS DOUBLE-GLOVING IMPORTANT?

The risk of exposure to bloodborne pathogens is a major concern for surgeons and operating room staff. Although often undetectable to the human eye, even microperforations in surgical gloves are large enough to allow pathogens to pass between the glove wearer and the patient and cause infection. A recent study reported that over 80% of all surgical glove perforations go unnoticed<sup>1</sup>. Another study showed that the incidence of glove microperforations increased with duration of wear<sup>2</sup>. A proven method to reduce these risks is to double glove with a dark coloured underglove.

## BETTER PROTECTION. FASTER IDENTIFICATION.

- A study by the American College of Surgeons showed double gloving reduces the risk of exposure to patient blood by as much as 87% when the outer glove is punctured.<sup>3</sup>
- According to a clinical study in the AORN Journal, when using a contrasting colour underglove, 84% of perforations were recognised in an average of 22 seconds, whereas 8% of perforations were identified in 47 seconds when using a single glove.<sup>4</sup>

## 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 following the breach minimises the risk of transmission of pathogens between the wearer and the patient.



### Medline Undergloves Features & Benefits:

- Latex, synthetic polyisoprene and accelerator-free neoprene options available
- Synthetic polymer coating for effortless damp hand donning and double gloving
- Constructed on our surgeon preference-inspired formers to minimise hand fatigue
- Thinner than standard gloves to enhance sensitivity
- Signature Latex Green and Sensicare PI Green are powder-free and coated with pure aloe vera to moisturise skin

# CONSULTATIVE SOLUTIONS



Disposable gloves are one of the highest volume supplies for hospitals. With various departments, clinical tasks and individuals all requiring different types and sizes of gloves, the amount of SKUs and suppliers can add up fast.

Before you know it, managing the inventory can become a challenge. As a worldwide leader in exam and surgical gloves, Medline can help you optimise your selection. Following a paper 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.

Contact your UK Medline sales representative or call 0844 334 5237 to get started.

1. Edlich R, Wind T, Hill L, Thacker J 2005 Resistance of double glove hole puncture indication systems to surgical needle puncture *Journal of Long-term Effects of Medical Implants* 15(2) 85-90  
2. Pardecke, Lars Ivo, Anna-Maria Goerd, Inga Langner, Bernd Jaeger, Ojan Assadian, Claus-Dieter Heidecke, Axel Kramer, and Nils-Olaf Huebner. "Incidence of microperforation for Surgical Gloves Depends on Duration of Wear." *Infection Control and Hospital Epidemiology* 30.5 (2009): 409-14. Print.  
3. Bergruer R & Heller PJ. Preventing sharps injuries in the operating room. *Journal of the American College of Surgeons*. 2004; (199)3:462-467.  
4. Korniewicz D & El-Masri M. Exploring the benefits of double gloving during surgery. *AORN Journal*. 2012; 95(3):328-336.



# MAKING THE PROCESS OF SWITCHING EASIER FOR YOU AND YOUR STAFF

We understand that surgical gloves are a clinically sensitive, surgeon-preference product and that change can be difficult. If you're willing to evaluate and consider switching to our gloves, we believe we should make the process as simple as possible for you and your surgical staff. Our Evaluation & Conversion Management Program 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.

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

## STEP 3: COMMUNICATION

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

## STEP 4: GLOVE PREVIEW

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

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

## STEP 5: EVALUATION

## 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 the 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

Latex or Latex-free symbol ensures staff selects the correct glove depending on patient or staff allergies



Medline recognises and is concerned with how our products and operations affect the local, regional and global environment. To this end, we are committed to continuously improving our environmental performance. Local environmental laws and regulations are regarded as the minimum level of environment performance for our organisation. We understand that a key element of our corporate environment strategy is waste management and therefore recognise the need to use materials derived from sustainable sources and to use recyclable packaging materials wherever possible. We optimise the dimensions and weight of our packaging to increase the transportation efficiency and thereby help to reduce the product's carbon footprint.



# ALOETOUCH MAKES HANDS FEEL BETTER.

The soothing and moisturising benefits of aloe have been well known 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 of aloe.

Aloetouch® technology works by extracting 100% pure organic aloe vera gel directly from the plant, freeze-drying it, and evenly coating it to the inner surface of the glove. Body heat activates the aloe coating to create a moisturising experience. Try Aloetouch technology in our Signature Latex Green & Sensicare PI Green gloves.

## 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: 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.



# REAP THE BENEFITS OF GOING LATEX-FREE

Concern over the complications of latex allergies is driving many healthcare facilities to eliminate the latex products, particularly gloves, in their hospitals. Although powder-free latex gloves can help avoid many complications, even low-protein powder-free latex gloves are not completely safe. **The only way to truly eliminate latex-related risks is to avoid using latex entirely and switch to synthetics.** When all of the risks, commonly overlooked hidden costs, and the latest synthetic options are considered, implementing a 100% latex-free environment is easier to justify than you think.

**It is estimated that as many as 18% of healthcare workers may be allergic to latex compared to 1 to 6% of the general population.**

## 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.
- It is estimated that as many as 18% of healthcare workers may be allergic to latex compared to 1 to 6% of the general population.
- In addition to healthcare workers, children with spina bifida, people with urinary tract abnormalities and people 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, welts, 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 room is decontaminated
- Re-sterilisation for reusable products
- Occupational health visits and medical treatment for staff
- Worker's compensation claims





# DERMASSURE GREEN: A NEW LATEX-FREE ALTERNATIVE NOT MADE WITH CHEMICAL ACCELERATORS.

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, without powder and without 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 not made with 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 and allow for more natural movement compared to current accelerator-free and synthetic gloves.

### Ordering Information

Item No.	Size	Pkg.
MSG6555I	5 ½	200 pair/cs
MSG6560I	6	200 pair/cs
MSG6565I	6 ½	200 pair/cs
MSG6570I	7	200 pair/cs
MSG6575I	7 ½	200 pair/cs
MSG6580I	8	200 pair/cs
MSG6585I	8 ½	200 pair/cs
MSG6590I	9	200 pair/cs

## The Next Evolution in Surgical Gloves



**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 not made with powder and natural rubber latex, but still contains accelerators



**2016**  
Medline introduces next-generation surgical glove not made with powder, natural rubber latex and chemical accelerators

● POWDER ● LATEX ● ACCELERATORS

### + Universal application.

Ideal for general surgery as an underglove or by itself, as well as utilised in any surgery where staff members may have chemical accelerator sensitivities.



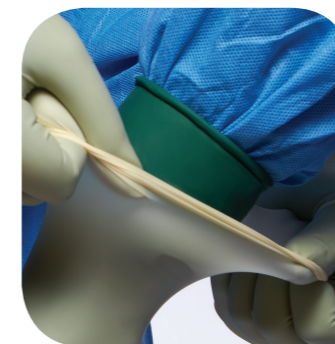
### + Excellent tactile sensitivity.

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



### + No cuff rolldown.

Designed with ARC (Anti-Rolldown Cuff) technology to reduce cuff rolldown common with many surgical gloves.



### + Outstanding comfort.

New, advanced polychloroprene formulation gives DermAssure flexibility and softness, making it comfortable to wear, even during lengthy procedures. DermAssure is also made with an improved former design to enhance comfort.





# 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 suitable for every type of surgery. All of our powder-free gloves are treated with a proprietary polymer coating to ensure effortless donning with dry and damp hands.

- The **Neolon 2G (MSG6555-MSG6590)** 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.
- The **DermAssure Green (MSG6555I-MSG6590I)** is a neoprene glove which 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
- We also offer the **Sensicare Shield (MSG3965-MSG3990)**, which is our specialty Radiation Attenuation glove. This is perfect for Fluoroscopic procedures, where it shields hands from scattered radiation.
- The **Sensicare PI (MSG9055-MSG9090)** offers the fit and performance of latex without the potential side effects associated with proteins. The **Sensicare PI Micro (MSG9655-MSG9690)** has the same features, but is even thinner, which makes it perfect for tactile sensitivity. And the **Sensicare PI Ortho (MSG9460-MSG9490)** is our thickest latex-free glove, which offers a more robust barrier for extra protection.
- The **Sensicare PI Green (MSG9255-MSG9290)** is a specialty dark green underglove with our proprietary moisturizing Aloetouch technology and is great for cardiac, trauma, ortho, and high risk procedures. The **Sensicare PI Evolution (MSG9555-MSG9590)** is an economical option which is made from a Polyisoprene blend. It is a flexible glove which is great for general surgery.



# 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 away from latex, clinicians have the need for a glove that has the soft, comfortable fit and feel of latex without the danger of type I allergic reactions to latex. 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

- Reduces risk of developing Type 1 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. Unlike anyone else in the industry Medline is making sure surgical glove performance is the focus of **raw material manufacturing**. Other companies don't have the ability to start this process until the actual glove manufacturing starts which takes place at a different site, with different employees, with different goals.

This vested interest that the raw material plant has in the finished product of a surgical glove is unparalleled and gives the ability to provide outstanding technical support, customer service and high performing solutions based on clinical feedback from the market.

## Automation

### Minimising the Risk-Over 700 process parameters are analysed

- 24/7 monitoring of proprietary control system logic insures 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 user performance in mind

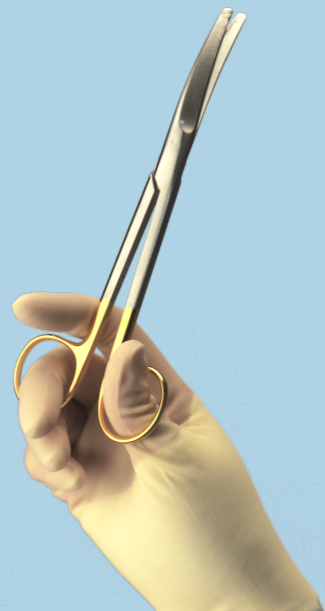
- Made with only the safest ingredients to reduce allergies. Isolex gloves are **DPG free!** DPG is a chemical needed in many polyisoprene gloves. According to recent study DPG is a growing cause of allergic concern as more users switch from latex to latex free gloves<sup>1,2</sup>
- Ideal for use with a wide variety of chemicals and bone cement. \*Testing available on request.
- Every lot produced undergoes rigorous QA testing where properties such as tensile strength, modulus, elongation, tear, viscosity, surfactant loading and mechanical stability are analysed to demonstrate suitability of the material prior to release.




# PORTFOLIO - LATEX OPTIONS

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

- The **Signature Latex Essential (MSG5955-MSG5990)** 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.
- The **Signature Latex Micro (MSG5855-MSG5890)** offers the same features with an even higher level of tactile sensitivity, making it perfect for neuro, vascular, plastic, and eye surgery.
- The **Signature Latex (MSG5455-MSG5490)** 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 latex and the skin, decreasing exposure to proteins.
- The **Signature Latex Ortho (MSG5660-MSG5690)** is our heavy duty glove, offering extra thickness and extra protection. This is a great choice for orthopaedics, trauma and high risk procedures.
- The **Signature Latex Grip (MSG2955-MSG2990)** is our newest surgical glove and is specially designed with texture on the external surface. This makes it ideal for procedures that require maximum grip and sensitivity, such as orthopaedic, neurosurgery, and ophthalmology. Its' great fit, feel and comfort also make it perfect for use in general surgery.
- The **OR Standard PF (MSG5255-MSG5290)** & **Triumph Classic (MSG5055-MSG5090)** are smart alternatives to powdered latex and their cousin, the **Signature Latex Green (MSG5555-MSG5590)**, is a dark green under-glove made with Aloetouch Technology (see page 10 for the benefits of Aloe). With a sharp look and a great feel, it is perfect for cardiac, trauma, ortho, and high risk procedures.



# 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 Ortho**	50/bx, 200/cs	-	MSG9460	MSG9465	MSG9470	MSG9475	MSG9480	MSG9485	MSG9490	
	SensiCare PI Green**	50/bx, 200/cs	MSG9255	MSG9260	MSG9265	MSG9270	MSG9275	MSG9280	MSG9285	MSG9290	
	SensiCare Shield**	5/bx, 20/cs	-	-	MSG3965	MSG3970	MSG3975	MSG3980	MSG3985	MSG3990	
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	
	Triumph Classic*	50/bx, 200/cs	MSG5055	MSG5060	MSG5065	MSG5070	MSG5075	MSG5080	MSG5085	MSG5090	
	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 Ortho*	40/bx, 200/cs	-	MSG5660	MSG5665	MSG5670	MSG5675	MSG5680	MSG5685	MSG5690	
	Signature Latex Green*	50/bx, 200/cs	MSG5555	MSG5560	MSG5565	MSG5570	MSG5575	MSG5580	MSG5585	MSG5590	
Signature Latex Grip*	50/bx, 200/cs	MSG2955	MSG2960	MSG2965	MSG2970	MSG2975	MSG2980	MSG2985	MSG2990		



\* These gloves are PPE certified to the latest standard to ensure extra protection for the user.  
 ^ These gloves are made with Medline's proprietary Isolex polyisoprene - see page 13 for more information.





# MEDLINE CARES

Medline is a global company that donates much needed medical supplies, including surgical gloves, each year to disaster relief, mission trips, and underprivileged areas and to promote healthcare education.

## GLOBAL HEADQUARTERS | MANUFACTURING FACILITY | DISTRIBUTION BRANCHES

☆ Corporate Headquarters   ★ Isolex Manufacturing Plant   ● Manufacturing   ● Distribution   ⊙ Office

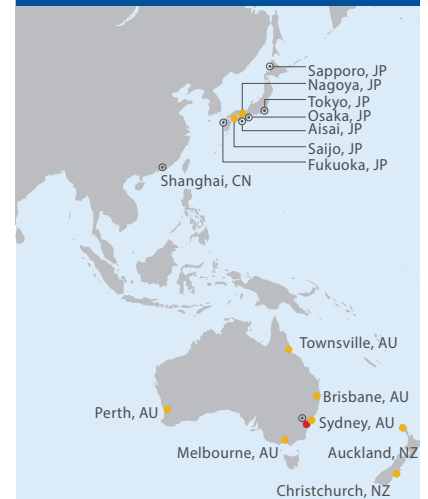
### NORTH AMERICA



### EUROPE



### PACIFIC RIM



For more information on our products please visit our website: [www.medline.eu/uk](http://www.medline.eu/uk)



Medline Industries Ltd  
 No 5 Booths Park  
 Chelford Road  
 Knutsford, Cheshire WA16 8GS  
 England  
 Tel: +44 844 334 5237  
 Fax: +44 844 334 5238  
[www.medline.eu/uk](http://www.medline.eu/uk)  
[uk-customerservice@medline.com](mailto:uk-customerservice@medline.com)