

**PROTECTIVE GLOVES**  
FOR CLEANING



**DAILY PROTECTION**



## SUITABLE GLOVES FOR CLEANING

**WHETHER IT'S FOR REASONS OF HYGIENE OR TO PROTECT THE SKIN FROM INJURY OR DAMAGE ARISING FROM THE USE OF AGGRESSIVE SUBSTANCES AND CHEMICALS – IN THE CLEANING SECTOR, HAVING THE RIGHT HAND PROTECTION MAKES ALL THE DIFFERENCE.**

Day-to-day cleaning very often requires the use of concentrated chemicals and diluted cleaning solutions. While concentrated chemicals are used in industrial cleaning, demanding the use of a certified chemical-resistant glove, when it comes to diluted solutions a hygienic glove is often sufficient.

Optimally tailored products for both hygienic applications and industrial cleaning offer optimum protection, guarantee excellent skin tolerance and are extremely comfortable to wear, even for long-term use.



Environmental awareness and sustainability

Since we attach great importance to environmental protection and product sustainability, our aim is to make your day-to-day procurement easier and to minimise the use of resources by means of optimised ordering solutions and by expanding our product range with the addition of economical 200-piece boxes primarily for the hygiene sector, which is characterised by a high consumption of protective gloves.

The many advantages are obvious:

- Reduce raw material input and packaging material consumption
- Save on transportation routes
- Reduce storage costs
- Minimise the glove box replacement intervals

Selecting the right protective gloves for cleaning depends on whether you use concentrated chemicals or diluted cleaning solutions. The following table offers an overview of the most commonly used Semperguard® disposable gloves and the most frequently required chemical resistances.

CHEMICAL RESISTANCE CHART					
CHEMICAL (SYNONYMS)	BREAK-THROUGH TIME ACCORDING TO EN 374-3 IN MINUTES				
	SEMPERGUARD® LATEX Comfort	SEMPERGUARD® LATEX PF IC	SEMPERGUARD® Nitrile Xpert	SEMPERGUARD® Nitrile Comfort/Lite	SEMPERGUARD® Nitrile Xtra Lite
Acetone (2-propane, ketone propane)	X	X	X	X	X
Ammonia (25%) (ammonium hydroxide, liquid ammonia)	A	A		A	
Acetic acid (10%) (methyl carbonic acid)	Level 2	Level 3		Level 6	Level 6
Ethanol (20%) (ethyl alcohol, methyl carbinol)		A	Level 6	Level 6	Level 1
Ethanol (70%) (ethyl alcohol, methyl carbinol)	X	X	Level 1	Level 1	A
Formaldehyde (37%) in methanol (10%) (formaline, formic acid aldehyde)	Level 1		Level 6	Level 3	Level 1
Isopropyl alcohol (70%) (2-propanol, isopropanol, IPA)	A	A	Level 1	Level 1	Level 1
Potassium hydroxide (30%) (caustic potash)	Level 1		Level 6	Level 6	Level 6
Sodium hydroxide (40%) (caustic soda, caustic soda solution)	Level 4	Level 6	Level 6	Level 6	Level 6
Phosphoric acid (85%) (orthophosphoric acid)	Level 6			Level 6	Level 6
Nitric acid (50%)		A	Level 4	A	A
Hydrochloric acid (10%)	Level 5	Level 6	Level 3	Level 6	Level 6
Hydrochloric acid (36%)	A	Level 1	Level 3	Level 2	A
Sulphuric acid (96%) (vitriol, dihydrosulphate)		Level 1	Level 1	A	

■ Not recommended

■ A Recommended only for splash protection – change glove immediately after contact

■ Level 1: recommended for short contact (from 10 to 30 min)

■ Level 2: for applications from 30 to 60 min

■ Level 3: for applications from 60 to 120 min

■ Level 4: applications from 120 to 240 min

■ Level 5: for applications from 240 to 480 min

■ Level 6: for applications over 480 min\*

\* Higher measurement values not available

Please refer to our information on the Chemical resistance chart on Page 4\*\*

## STANDARDS AND PICTOGRAMS

In the EU, there are a large number of standards for gloves which are labelled as Personal Protective Equipment (PPE). The basis is EN 420, which defines the general requirements for protective gloves, e.g. the contents of the information for users, the safety of the glove material, as well as the characteristics of the product (e.g.: length, size, etc.). In combination with EN 420, standard EN 374 also applies.



### PERMEATION:

The pictogram with a beaker stands for waterproof gloves and slight protection against chemical hazards. It confirms that the glove has been tested for the penetration of certain chemicals.

features in performance levels (wear, cutting, tearing and stab protection).



### PENETRATION:

The pictogram for protection against bacteriological contamination states whether the glove is free of holes and is therefore impermeable to microorganisms according to the definition in the standard. It is tested at AQL level during production.



### CE MARK:

Products with the CE mark comply with the currently valid EU safety regulations, which in this case means compliance with the PPE Directive, which in turn is mandatory for this labelling.



### MECHANICAL RESISTANCE:

Standard EN 388 is primarily relevant for reusable protective gloves. It specifies the resistance of the glove in the event of various hazards (mechanical risks) and for better indication it categorises 4 different



Category I:	Protection against minimal risks
Category II:	Protection against moderate risks
Category III:	Protection against complex risks

PPE Cat. I-III – The requirements for Personal Protective Equipment are regulated by EU Directive 89/686/EEC, in order to guarantee the health and safety of the user.

## DISPOSABLE GLOVES

Product name	Semperguard® Nitrile Xpert	Semperguard® Nitrile Comfort	Semperguard® Nitrile Comfort Lite	Semperguard® Nitrile Xtra Lite	Semperguard® Nitrile Xenon	Semperguard® Latex powderfree IC	Semperguard® Latex Comfort	Semperguard® Latex powdered	Semperguard® Vinyl powdered
									
<b>Product characteristics</b>	<b>ROBUST NITRILE</b> <ul style="list-style-type: none"> <li>Signal colour blue (HACCP standard)</li> <li>Greater wall thickness</li> <li>More resilience</li> <li>Good chemical resistance*</li> <li>No silicone added</li> </ul>	<b>COMFORTABLE NITRILE</b> <ul style="list-style-type: none"> <li>Signal colour blue (HACCP standard)</li> <li>Extremely comfortable to wear</li> <li>Good chemical resistance*</li> </ul>	<b>COMFORTABLE, LIGHTWEIGHT NITRILE</b> <ul style="list-style-type: none"> <li>Signal colour blue (HACCP standard)</li> <li>Accurate tactility</li> <li>Good chemical resistance*</li> </ul>	<b>LIGHTWEIGHT NITRILE</b> <ul style="list-style-type: none"> <li>Lavender blue, offering compliance with HACCP standards</li> <li>Excellent elasticity</li> <li>Skin-friendly</li> </ul>	<b>HYGIENIC GLOVE</b> <ul style="list-style-type: none"> <li>White</li> <li>Extremely comfortable to wear</li> <li>Outstanding tactility</li> </ul>	<b>THE ALL-ROUNDER</b> <ul style="list-style-type: none"> <li>Natural</li> <li>Inner coating</li> <li>Highly tear-resistant/excellent elasticity</li> <li>Good tactility/very comfortable to wear</li> </ul>	<b>COMFORTABLE LATEX</b> <ul style="list-style-type: none"> <li>Natural</li> <li>Chlorinated</li> <li>Excellent elasticity</li> <li>Good tactility/very comfortable to wear</li> </ul>	<b>THE POWDERED OPTION</b> <ul style="list-style-type: none"> <li>Natural</li> <li>Powdered</li> <li>Easy fit, even on wet hands</li> <li>Excellent value for money</li> </ul>	<b>SKIN-FRIENDLY</b> <ul style="list-style-type: none"> <li>Transparent and signal colour blue (HACCP standard)</li> <li>No latex proteins or accelerators</li> <li>Free from DOP</li> <li>Quality at a good price</li> <li>For handling fat-free foods</li> </ul>
<b>Material</b>	Nitrile	Nitrile	Nitrile	Nitrile	Nitrile	Natural latex	Natural latex	Natural latex	Vinyl
<b>Interior</b>	Powder-free	Powder-free	Powder-free	Powder-free	Powder-free	Powder-free	Powder-free	Powdered	Powdered/powder-free
<b>Exterior</b>	Textured	Textured fingers	Textured	Textured fingers	Textured fingers	Textured	Textured fingers	Textured fingers	Smooth
<b>Length</b>	Median 240 mm	Median 240 mm	Median 240 mm	Median 240 mm	Median 240 mm	Median 240 mm	Median 240 mm	Median 240 mm	Median 240 mm
<b>Thickness (double)</b>	0.26 mm	0.20 mm	0.16 mm	0.14 mm	0.10 mm	0.24 mm	0.20 mm	0.20 mm	0.15 mm
<b>MD classification (Medical Devices Directive)</b>		CE Class I	CE Class I	CE Class I		CE Class I	CE Class I	CE Class I	
<b>PPE (Personal Protective Equipment Directive)</b>	PPE category III Complex risks	PPE category III Complex risks	PPE category III Complex risks	PPE category III Complex risks	PPE category III Complex risks	PPE category III Complex risks	PPE category III Complex risks	PPE category III Complex risks	PPE category I Minimal risks

## REUSABLE PROTECTIVE GLOVE

Product name	Sempersoft	Semperplus	Sempervelvet	Sempertip
				
<b>Product characteristics</b>	<b>COMFORTABLE VINYL</b> <ul style="list-style-type: none"> <li>Phthalate-free</li> <li>Particularly skin-friendly</li> <li>Extremely comfortable to wear</li> </ul>	<b>ROBUST NITRILE</b> <ul style="list-style-type: none"> <li>Latex-free</li> <li>Extra length for greater protection</li> </ul>	<b>THE ALL-ROUNDER</b> <ul style="list-style-type: none"> <li>Flocklined</li> <li>Rolled edge for better drip protection</li> </ul>	<b>LIGHTWEIGHT</b> <ul style="list-style-type: none"> <li>Flocklined</li> <li>Good grip in wet environments</li> </ul>
<b>Material</b>	Vinyl	Nitrile	Natural latex	Natural latex
<b>Interior</b>	Flocklined with cotton	Flocklined with cotton	Flocklined with cotton	Flocklined with cotton
<b>Exterior</b>	Structured	Diamond pattern	Honeycomb pattern	Honeycomb pattern
<b>Length</b>	Median 320 mm	Median 330 mm	Median 300 mm	Median 300 mm
<b>Thickness (single)</b>	0.5 mm	0.38 mm	0.45 mm	0.40 mm
<b>PPE (Personal Protective Equipment Directive)</b>	PPE category III Complex risks	PPE category III Complex risks	PPE category III Complex risks	PPE category I Minimal risks

\*see chemical resistance list on [www.sempermed.com](http://www.sempermed.com)

All protective gloves in the Sempermed product range are of a very high quality, have been tested in accordance with the specified standards and are suitable for handling cleaning solutions

### \*\* IMPORTANT NOTE:

Please note that the product characteristics are directly dependent on the conditions of use and on the purity of the chemical substances concerned. When working with materials that are harmful to the skin, please always inspect the glove for any holes or tears prior to use. In principle, tests and certificates may only be regarded as general indications and do not exempt the user from the responsibility of making sure that the glove affords the protection requirements for the intended purpose prior to use. The chemical resistance recommendations do not form part of the specifications. If in doubt, please consult your dealer or contact Sempermed directly [www.sempermed.com](http://www.sempermed.com).



**IMPORTANT NOTE:** At the time of printing, all the listed Semperguard® protective gloves comply with the specified standards and EU directives and have been tested for their suitability in the handling of cleaning agents. Please note that the product characteristics are directly dependent on the conditions in which the products are used and the cleaning agents with which they come into contact, and that there may be limitations with some materials. The latest product brochures can be found at [www.sempermed.com](http://www.sempermed.com). Failure to observe this information, in particular with regard to (chemical) resistance, frequency of use and tolerability of the gloves, can result in personal injury and/or material damage. Semperit does not accept any liability for incorrect use of the gloves. In case of doubt, obtain expert advice before use. The information and classifications correspond to the latest status at the time of printing. Subject to mistakes, printing errors and amendments.

**CAUTION:** Natural latex can cause allergic reactions, including anaphylactic shock.

### PLEASE CONTACT US.

Semperit Technische Produkte Gesellschaft m.b.H. · Segment Sempermed  
 Austria · A-1031 Vienna · Modecenterstr. 22 · Tel.: +43 1 79 777-0 · Fax: +43 1 79 777-630  
 e-mail: [sempermed@semperitgroup.com](mailto:sempermed@semperitgroup.com) · [www.sempermed.com](http://www.sempermed.com)