

# Semperguard The daily protection.



DISPOSABLE  
PROTECTIVE GLOVES

# OPTIMAL SAFETY FOR STAFF AND COMPANY

In many areas of business, we can no longer imagine working without protective gloves. Whether for hygienic reasons, such as in the food industry, or as a protection against injuries and skin irritation by aggressive substances – gloves offer optimal protection for the skin and they can thus help to minimise the resulting costs incurred to a company due to illness.

As a leading manufacturer in the protective gloves sector, Sempermed offers a comprehensive range of high-quality products made of latex, vinyl and nitrile for contact with foods. All Sempermed products are of the best quality, meet high demands, and are tested in accordance with the relevant standards and Directive 89/686/EEC on personal safety equipment. Moreover, they are suitable for contact with foods.



## QUALITY AND SAFETY

In addition to research and development at the highest level in Austria – the heart of Europe – safety and quality are particularly important at Sempermed. Consistently high product quality, constant striving for perfection and local personal service and advice make Semperguard your problem-solver in all issues concerning protective gloves.



## EXCELLENT SKIN TOLERANCE

Allergy prevention remains a great challenge. With its broad range of protective gloves of optimised material, Sempermed Research makes a major contribution to your health and safety.

The multiple washing processes during the production of powder-free gloves make the gloves particularly clean and also skin-friendly both outside and inside. With every glove, various specially developed technologies or processes are applied that optimise the glove properties and offer various need-specific product benefits. Read more about the product benefits of the individual gloves on the following pages.



## ENVIRONMENTALLY FRIENDLY PRODUCTION

With the production of protective gloves Sempermed takes responsibility not only for your safety, but also for the welfare of the next generations. For us, production with environmentally friendly high-tech processes and machinery and the reduction of aggressive chemicals in finishing through innovative methods and constant environmentally friendly optimisation of the production processes go without saying.



## POWERED BY SEMPERMED

Since 1920 Sempermed has been producing gloves of supreme quality that is appreciated worldwide. Quality that makes Sempermed the market leader in many areas in Europe, and has long since made Sempermed a “big player” in medical gloves. 42 million gloves dispatched worldwide every day are an impressive sign of trust in the quality and satisfaction with the product properties of gloves made by Sempermed.



## SEMPERGUARD LATEX powder-free IC

Tried and tested, particularly skin-friendly powder-free disposable glove of natural latex for many uses in industry and in labs.



### YOUR ADVANTAGES AT A GLANCE

- CE category III protective glove for complex risks  
CE class I medical device
- The particularly skin-friendly, powder-free hygiene glove made of natural latex
- Good grip and easy to don through innovative production technology
- Free from phthalates / softeners

### TECHNICAL DETAILS

<b>GLOVE SHAPE</b>	flat with rolled edge (ambidextrous)
<b>MATERIAL</b>	natural latex
<b>COLOUR</b>	natural
<b>OUTSIDE</b>	textured
<b>INSIDE</b>	powder-free innercoated
<b>SIZE/TOTAL LENGTH</b> according to EN 420	XS, S, M, L, XL med. 240 mm
<b>THICKNESS/PALM</b> wall thickness measured in single layer	0.12 mm
<b>PACKAGING</b>	100 pcs. XS, S, M, L/DB 90 pcs. XL/DB 10 DB/SU
<b>PURPOSE</b> as set out in MDD 93/42 EEC as set out in PPE 89/686 EEC	medical device class I single-use protective glove for complex risks, category III

**CE 0321** EN 455 AQL 1,5    



## SEMPERGUARD LATEX powdered

High quality standard disposable glove of natural latex – for various uses in industry and in labs.







### YOUR ADVANTAGES AT A GLANCE

- CE category III protective glove for complex risks
- Excellent wearing comfort through high-quality natural latex – fits the hand perfectly
- Excellent value for money wherever powdered products are required for contact with fatty foodstuffs
- Free from phthalates / softeners

### TECHNICAL DETAILS

<b>GLOVE SHAPE</b>	flat with rolled edge (ambidextrous)
<b>MATERIAL</b>	natural latex
<b>COLOUR</b>	natural
<b>OUTSIDE</b>	textured fingers
<b>INSIDE</b>	powdered
<b>SIZE/TOTAL LENGTH</b> according to EN 420	XS, S, M, L, XL med. 240 mm
<b>THICKNESS/PALM</b> wall thickness measured in single layer	0.10 mm
<b>PACKAGING</b>	100 pcs. XS, S, M, L/DB 90 pcs. XL/DB 10 DB/SU
<b>PURPOSE</b> as set out in PPE 89/686 EEC	single-use protective glove for complex risks, category III

**CE 0321** AQL 1,5    



## SEMPERGUARD VINYL powdered and powder-free

Value-for-money quality product for simple hygiene tasks in industry, packaging and catering.



### YOUR ADVANTAGES AT A GLANCE

- CE category I protective glove for minimal risks
- Particularly skin-friendly disposable protective glove for users with latex allergy – free from latex proteins and accelerants
- Free from DOP (DEHP / diethylhexyl-phthalate)
- Also available in signal colour blue – suitable for the food industry

### TECHNICAL DETAILS

GLOVE SHAPE	flat with rolled edge (ambidextrous)
MATERIAL	vinyl
COLOUR	transparent or blue (powdered) transparent (powder-free)
OUTSIDE	smooth
INSIDE	powdered or powder-free (lined)
SIZE/TOTAL LENGTH according to EN 420	S, M, L, XL med. 240 mm
THICKNESS/PALM wall thickness measured in single layer	0.075 mm
PACKAGING	100 pcs. S, M, L/DB 90 pcs. XL/DB 10 DB/SU
PURPOSE as set out in PPE 89/686 EEC	single-use protective glove for minimal risks, category I


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 EN 455 AQL 1,5
 

 For fat-free foodstuffs!



## SEMPERGUARD NITRILE

Very robust disposable glove made of nitrile with the tried and tested design for uses requiring very good tactile properties combined with high resistance.



### YOUR ADVANTAGES AT A GLANCE

- CE category III chemicals protective glove\* for complex risks
- Tried and tested quality product made of nitrile – excellent resistance to skin irritants in foodstuffs
- More resilience through special formulation and greater wall thickness
- The problem-solver for single use in applications with an increased need for safety when handling chemicals
- Free from phthalates / softeners and allergenic latex proteins
- Easy to don and particularly skin-friendly through special finishing process
- Signal colour blue – suitable for areas subject to HACCP standards

### TECHNICAL DETAILS

GLOVE SHAPE	flat with rolled edge (ambidextrous)
MATERIAL	nitrile
COLOUR	blue
OUTSIDE	textured
INSIDE	powder-free halogenated
SIZE/TOTAL LENGTH according to EN 420	S, M, L, XL med. 240 mm
THICKNESS/PALM wall thickness measured in single layer	0.13 mm
PACKAGING	100 pcs. S, M, L/DB 90 pcs. XL / DB 10 DB/SU
PURPOSE as set out in PPE 89/686 EEC	single-use protective glove for complex risks. category III


**0121**
EN 455 AQL 1,5
 




\* according to List of Chemicals



## SEMPERGUARD NITRILE Comfort

The perfect disposable solution for users with highest demands on both wearing comfort and resistance.



### YOUR ADVANTAGES AT A GLANCE

- CE category III protective glove for complex risks  
CE class I medical device
- Special nitrile formulation for a soft glove with excellent chemical resistance to skin irritants\*
- Excellent wearing comfort
- The problem-solver for single use to protect against chemical splashing\* and in the processing of fatty foods.
- Free from phthalates / softeners and allergenic latex proteins
- Signal colour blue – suitable for areas subject to HACCP standards

### TECHNICAL DETAILS

<b>GLOVE SHAPE</b>	flat with rolled edge (ambidextrous)
<b>MATERIAL</b>	nitrile
<b>COLOUR</b>	blue
<b>OUTSIDE</b>	textured fingers
<b>INSIDE</b>	powder-free
<b>SIZE/TOTAL LENGTH</b> according to EN 420	S, M, L, XL med. 240 mm
<b>THICKNESS/PALM</b> wall thickness measured in single layer	0.10 mm
<b>PACKAGING</b>	100 pcs. S, M, L/DB 90 pcs. XL/DB 10 DB/SU
<b>PURPOSE</b> as set out in MDD 93/42 EEC as set out in PPE 89/686 EEC	medical device class I single-use protective glove for complex risks, category III



**CE 0121** EN 455 AQL 1,5



## SEMPERGUARD NITRILE Xtension

The extra length of this new nitrile glove translates into even greater protection, especially in the demanding areas of laboratory and pharma.



### YOUR ADVANTAGES AT A GLANCE

- CE category III protective glove for complex risks  
CE class I medical device
- Extra length
- Very good chemical protection\* while still offering excellent wearing comfort
- Skin friendly: Free from phthalates / softeners and allergenic latex proteins
- Signal colour blue – suitable for areas subject to HACCP standards

### TECHNICAL DETAILS

<b>GLOVE SHAPE</b>	flat with rolled edge (ambidextrous)
<b>MATERIAL</b>	nitrile
<b>COLOUR</b>	blue
<b>OUTSIDE</b>	textured fingers
<b>INSIDE</b>	powder-free
<b>SIZE/TOTAL LENGTH</b> according to EN 420	S, M, L, XL med. 290 mm
<b>THICKNESS/PALM</b> wall thickness measured in single layer	0.10 mm
<b>PACKAGING</b>	100 pcs. S, M, L/DB 90 pcs. XL/DB 10 DB/SU
<b>PURPOSE</b> as set out in MDD 93/42 EEC as set out in PPE 89/686 EEC	medical device class I single-use protective glove for complex risks, category III

**CE 0321** EN 455 AQL 1,5



\* according to List of Chemicals





## SEMPERGUARD NITRILE Xtra Lite

Extremely light hygiene glove made of nitrile with main focus on wearing comfort. Recommended for many uses in industry, product testing and packaging.



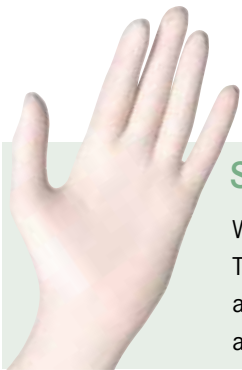
### YOUR ADVANTAGES AT A GLANCE

- CE category III protective glove for complex risks  
CE class I medical device
- Specially developed formulation and innovative production process for a wafer-thin nitrile glove with excellent elasticity for good wearing comfort
- Free from phthalates/softeners and allergenic latex proteins
- Lavender-coloured – suitable for areas subject to HACCP standards
- In the handy big pack (200 gloves S, M, L and 180 gloves XL) for optimised logistics through
  - longer use of a package – less frequent replacement intervals at the workplace
  - reduced warehouse logistics – lower distribution costs through longer warehouse intervals
  - less packaging material – less packaging waste

### TECHNICAL DETAILS

<b>GLOVE SHAPE</b>	flat with rolled edge (ambidextrous)	
<b>MATERIAL</b>	nitrile	
<b>COLOUR</b>	lavender-blue	
<b>OUTSIDE</b>	textured fingers	
<b>INSIDE</b>	powder-free	
<b>SIZE/TOTAL LENGTH</b> according to EN 420	S, M, L, XL	med. 240 mm
<b>THICKNESS/PALM</b> wall thickness measured in single layer	0.07 mm	
<b>PACKAGING</b>	200 pcs. S, M, L/DB 10 DB/SU	180 pcs. XL/DB
<b>PURPOSE</b> as set out in MDD 93/42 EEC as set out in PPE 89/686 EEC	medical device class I single-use protective glove for complex risks, category III	

**CE 0321** EN 455 AQL 1,5    



## SEMPERGUARD NITRILE Xenon

White nitrile glove highlighting both skin friendliness and suppleness. The best value solution when hygienic aspects and colour recognition are required for a range of jobs from catering to light industrial tasks, as well as in the home.



### YOUR ADVANTAGES AT A GLANCE

- CE category I protective glove for minimal risks  
CE class I medical device
- Soft and light disposable glove with excellent wearing comfort and great sense of touch.
- Skin friendly: Free from phthalates / softeners and allergenic latex proteins
- Elegant white colour
- In the handy big pack (200 gloves S, M, L and 180 gloves XL) for optimised logistics through
  - longer use of a package – less frequent replacement intervals at the workplace
  - reduced warehouse logistics – lower distribution costs through longer warehouse intervals
  - less packaging material – less packaging waste

### TECHNICAL DETAILS


<b>GLOVE SHAPE</b>	flat with rolled edge (ambidextrous)	
<b>MATERIAL</b>	nitrile	
<b>COLOUR</b>	white	
<b>OUTSIDE</b>	textured fingers	
<b>INSIDE</b>	powder-free	
<b>SIZE/TOTAL LENGTH</b> according to EN 420	S, M, L, XL	med. 240 mm
<b>THICKNESS/PALM</b> wall thickness measured in single layer	0.05 mm	
<b>PACKAGING</b>	200 pcs. S, M, L/DB 10 DB/SU	180 pcs. XL/DB
<b>PURPOSE</b> as set out in MDD 93/42 EEC as set out in PPE 89/686 EEC	medical device class I single-use protective glove for minimal risks, category I	

# RECOMMENDATION ON CHEMICAL RESISTANCE

The Semperguard protective glove for single use has been tested in compliance with standard EN 374-3 “Determination of resistance to permeation by chemicals”.

CHEMICAL	BREAKTHROUGH TIME AS SET OUT IN EN 374-3 IN MINUTES					
	SEMPERGUARD LATEX powdered	SEMPERGUARD LATEX powder free	SEMPERGUARD VINYL	SEMPERGUARD NITRILE	SEMPERGUARD NITRILE Comfort	SEMPERGUARD NITRILE Xtra Lite
Acetic acid (10%) (methylcarbon acid)	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6
Acetic acid (100%) (methylcarbon acid)		A				
Acetone (2- propanone, methyl ketone)	x	x	x	x	x	x
Acetonitrile (cyanomethane, ethyl nitrile)	x	x	x	x	x	x
Acrylamid (40%) (acrylic acid amide)		Level 4		Level 6	Level 6	
Ammoniumhydroxid (25 %)	A	A	A	A	A	
Benzalconiumchloride liquid (Quart)		Level 6				
Chlorhexidin firm	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6
Chlorhexidingluconat+ethanol+ water					Level 1	
Chloroform (trichloromethane, methyl trichloride)	x	x	x	x	x	x
Cyclohexanol (Hexalin / at 23°C)		Level 1		Level 6	Level 3	
Dichlormethane (methylene chloride, Freon 30)	x	x	x	x	x	x
Diethylamine (DEA)	x	x	x	x	x	x
Diethylether (diethyloxid, ethoxyethane, anesthetic ether)	x	x	x	x	x	x
Dimethylsulfoxide DMSO (deltan, demasorb)	x	x	x	x	x	x
Ethanol (20%) (ethyl alcohol)	A	A	A	Level 6	Level 1	Level 1
Ethanol (40%) (ethyl alcohol)	x	x	A	Level 1	A	A
Ethanol (70%) (ethyl alcohol)	x	x	A	A	A	A
Ethanol (80%) (ethyl alcohol)	x	x	A	A	A	A
Ethanol p.a. (ethyl alcohol)	x	x		A	A	A
Ethidium bromide (1%) (homidium bromide)	x	x	x	Level 6		
Ethyl acetate (Aceto acid ether)	x	x	x			
Formaldehyde (37%) (formalin, methyl aldehyde)	A	A	A	Level 6		
Gasoline (heavy, bp 150 – 190°C – CAS 8232-32-4)	x	A	x	Level 2	Level 1	
Glutaraldehyde (5%) (1,3- diformylpropane; Glutaral)		Level 4	Level 4	Level 6	Level 6	
Heptan – n (CAS 142-82-5)	x	x	x	Level 1		
Hexan – n (CAS 110-54-3)	x	x	x	A	A	A
Hydrochloric acid (37%) (muriatic acid, chlorohydric acid)		Level 2	Level 2	Level 3	Level 2	Level 1
Hydrofluoric acid (40%)				Level 1	A	
Isopropyl alcohol (40%) (2- propanol, isopropanol, IPA)		A	A		Level 1	A
Isopropyl alcohol (70%) (2- propanol, isopropanol, IPA)		A	A		Level 1	A
Isopropyl alcohol p.a. (2- propanol, isopropanol, IPA)	x	A	A		Level 1	
Linseed oil	A	A	A	A	A	A
Methanol (5%) (methyl alcohol, carbinol, colonial spirit, methylol)					Level 6	
Methanol p.a. (methyl alcohol, carbinol, colonial spirit, methylol)	x	x		A	A	
Nitric acid (10%) (azotic acid)	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6
Nitric acid (36%) (azotic acid)		Level 6	Level 6			Level 6
Nitric acid (50%) (azotic acid)			Level 6	Level 4	Level 2	
Phenol (10%) (carbolic acid, benzenol, hydroxybenzene)	A	A	A	A		
Phenol (80%) (carbolic acid, benzenol, hydroxybenzene)				Level 2		
Phosphoric acid (10%) (orthophosphoric acid)				Level 6	Level 6	
Potassium hydroxide (30%) (caustic potash, lye)				Level 6	Level 6	
Sodium hydroxide (30%)(caustic soda, lye, white caustic)	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6
Sodium hydroxide (40%)(caustic soda, lye, white caustic)	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6
Sulfuric acid (96%)( vitriol)		Level 1	A	Level 1	A	
Toluene (methylbenzol, phenylmethan, toluol)	x	x	x	x	x	x
Trichlorethane (methyltrichloromethane, chlorotene)	x	x	x	x	x	x
Xylene (xylol, dimethylbenzene)	x	x	x	x	x	x

 → not recommended


 → A recommended only for splash protection

 → Level 1 recommended for short contact

 → Level 2 recommended for applications up to 60 min

 → Level 3 recommended for applications up to 120 min

 → Level 4 for applications up to 240 min

 → Level 5 for applications up to 480 min

 → Level 6 recommended for applications up to 480 min

**IMPORTANT NOTE:** All Semperguard protective gloves are in compliance with the stated valid standards and EU Directives valid at the time of printing. Please note that the product properties depend directly on the conditions in which it is used and purity of the chemicals. If you are working with substances that can harm the skin, **please check the glove for any holes or cracks before using it** do not use damaged gloves. Generally, tests and certificates can only serve as general information and do not release the user from his duty to make sure that the glove fulfils his current protective needs before use. The chemical resistance recommendations are not a part of the specifications. In case of doubt, please contact our dealer of Semperguard.

**CAUTION: Non-observance of this information**, especially for chemical resistance, frequency of use and tolerance of the gloves, **can cause (even serious) material damage and personal injury**. Semperit accepts no liability for the incorrect use of the gloves. Therefore, in case of doubt, please seek specialist advice!

# COMPARISON OF MATERIALS – SEMPERGUARD DISPOSABLE GLOVES

Individuals sometimes perceive the material properties of latex, vinyl and nitrile differently. The following comparison should help the user to choose the right material for each application. It allows you to choose the optimal glove depending on the purpose and application.

FEATURE	LATEX	VINYL	NITRILE
Comfort	++	-	+
Grip	++	+	++
Mechanical strength			
Tear resistance	++	-	++
Perforation resistance	+	-	++
Elasticity	800 %	300 %	600 %
Migration (food suitability)	++	-	++
Chemical resistance	*	*	*
Skin friendliness			
Proteins	present	not present	not present
Accelerators	present	not present	present
Problematic disposal	++	+	+
Smell	own smell	neutral	own smell

\* depending on the specific chemicals – see Resistance Table

The information, data, numbers, classifications and data correspond to the status at time of printing. The latest product information is available at [www.sempermed.com](http://www.sempermed.com). Technical details are average values from production and may vary in individual cases. Subject to technical alterations, errors, misprint and typographical failures

## SYMBOL FOR FOODSTUFF COMMODITIES:



This symbol confirms that the protective gloves are in conformity with EU Regulation 1935/2004, which defines the general specifications for materials and articles intended for contact with foodstuffs.



The test as set out in EN 388 (mechanical risks) is shown by the pictogram and the performance level:

*Abrasion resistance*      *Tear resistance*  
*Cut resistance*          *Perforation resistance*



Pictogram EN374 with the beaker stands for waterproof protective gloves and low protection from chemical hazards.



The test in accordance with EN 374-2 determines whether the glove is free from holes and therefore impermeable for micro-organisms as defined in the standard. In production, the glove is tested for AQL levels. If specified, they mean:

*Performance level 1: AQL 4.0*    *Performance level 3: AQL 0.65*  
*Performance level 2: AQL 1.5*

Abbreviations: pcs. = pieces, SU = shipping unit, DB = dispenser box  
Please also note our product specifications for all products.