

semperguard® 

# PROTECTIVE GLOVE SOLUTIONS

HAND PROTECTION EXPERTISE SINCE 1920



# SEMPERGUARD® GLOVES FIT YOUR NEEDS

Our protective gloves cater to professionals in many different fields. From light manufacturing and the pharmaceutical industry to food, cleaning and other services, we develop and produce gloves that offer reliable protection based on our almost 100-year-long glove manufacturing expertise.

## CERTIFIED HAND PROTECTION

Semperguard® gloves are certified as Personal Protective Equipment according to PPE Regulation (EU) 2016/425 to ensure your safety.

At the same time, you'll also find solutions that protect your skin thanks to our safe and tested formulations. Most of our industrial gloves are additionally certified as CE Class I medical devices and successfully fulfil the requirements of the Medical Device Directive 93/42/EEC; they are also scheduled to fulfill the requirements of the upcoming Medical Device Regulation 2017/ 745 (EU).



## SAFE FOR SENSITIVE SKIN

We offer solutions that protect your skin from common allergies such as synthetic materials which are free from allergenic latex proteins and skin-friendly. Innovative manufacturing methods like our Green Glove technology and our specially developed washing and finishing process significantly reduce the risk of skin allergies even further.

## PERSONAL PROTECTION

In light manufacturing, proper hand protection is key: harmful chemicals and mechanical injuries are potential risks in the assembly, maintenance and repair of industrial products. Our nitrile gloves are particularly suited to these tasks – the tough **Semperguard® Xpert** will convince wearers with its increased wall thickness and ability to protect against different chemicals\*, the 300mm-long **Semperguard® Xtension** provides additional drip protection, and the elastic **Semperguard® Xtra Lite** allows for precision work.

## LABORATORIES & PHARMACEUTICAL INDUSTRY

Whether a glove is needed to protect against harmful chemicals or to ensure hygienic working conditions, our portfolio offers fitting solutions. For the common requirements of lab workers **Semperguard® Comfort** provides a good combination of wearing comfort and chemical protection\*. For professionals in the pharma industry, the accelerator-free **Semperguard® Green** offers skin-friendliness and a good touch and feel.

## FOOD SERVICE INDUSTRY

Several fitting options are available for the professional handling, preparation, cooking and serving of food. For work in kitchens, **Semperguard® Sapphire blue** and **Semperguard® Xtra Lite** gloves offer an appealing lavender color that conforms to HACCP standards and are comfortable to wear. In the 'front of house', chefs prefer fashionable gloves like our black coloured **Semperguard® Style**, while the white **Semperguard® Xenon** presents itself as a hygienic option to serve food.

## PROFESSIONAL CLEANING

The versatile **Semperguard® Sapphire blue** is a suitable glove for cleaning services as it protects against certain aggressive substances\* used in cleaning products, and is comfortable to wear. The **Semperguard® Latex Comfort** similarly is a good option when wearing comfort, value for money and easy donning are prime considerations.

\*as per chemical resistance charts found at <https://www.sempermed.com/en/knowledge-centre/chemical-resistance/chemical-resistance-semperguard/>

# MILE STONES

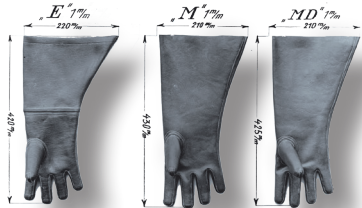


## 1824 GROUNDBREAKING BEGINNINGS

Semperit is founded by Johann Nepomuk Reithoffer, a tailor, entrepreneur and inventor specialising in waterproof fabrics. His patented weaving machine marks the start of the European rubber industry.

## 1852 OUR FUTURE HOME

Construction commences on a factory in Wimpassing, Austria, which will one day house Sempermed's surgical glove production and research and development centre.



## 1920 FIRST GLOVES

Semperit starts producing latex gloves.

## 2000 THE SEMPERGUARD® BRAND

The industrial glove portfolio is launched, consisting of three gloves including the trusted Semperguard® Xpert – our first nitrile glove.



## 2010 XTRA LITE

The light, lavender blue Semperguard® Xtra Lite convinces with its elasticity.

## 2015 MADE IN MALAYSIA

The newest plant, No.7, expands our production footprint in Asia.



## 2018 SUSTAINABILITY & SKIN-FRIENDLINESS

The innovative Green Glove Technology introduces a new level of sustainability in glove manufacturing.



## 2020 A CENTURY OF GLOVE EXPERTISE



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## DISPOSABLE GLOVES

## NITRILE

## LIGHT WEIGHT

## MEDIUM WEIGHT

BRAND NAME	Semperguard® Sapphire blue	Semperguard® Green	Semperguard® Xtra Lite	Semperguard® Xenon	Semperguard® Style	Semperguard® Comfort	Semperguard® Xtension
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<b>KEY GLOVE FEATURES</b>	<b>THE SOFT NITRILE</b> <ul style="list-style-type: none"> <li>appealing lavender blue colour (suitable for HACCP standard)</li> <li>extremely soft and comfortable to wear</li> <li>splendid tactility</li> </ul>	<b>THE SKIN-FRIENDLY GREEN</b> <ul style="list-style-type: none"> <li>skin-friendly and pure: no chlorine, no latex proteins, no accelerators</li> <li>saving on water, energy and CO<sub>2</sub> emissions</li> </ul>	<b>THE LIGHT NITRILE</b> <ul style="list-style-type: none"> <li>lavender blue colour (suitable for HACCP standard)</li> <li>excellent elasticity</li> <li>feels like a second skin</li> </ul>	<b>THE HYGIENE WHITE NITRILE</b> <ul style="list-style-type: none"> <li>white</li> <li>excellent wearing comfort</li> <li>great sense of touch</li> </ul>	<b>THE BLACK NITRILE</b> <ul style="list-style-type: none"> <li>black</li> <li>excellent elasticity</li> <li>especially suitable for applications which are visible to the public</li> </ul>	<b>THE COMFORT NITRILE</b> <ul style="list-style-type: none"> <li>signal colour blue (suitable for HACCP standard)</li> <li>excellent wearing comfort</li> <li>good chemical resistance*</li> </ul>	<b>THE EXTRA-LONG NITRILE</b> <ul style="list-style-type: none"> <li>length of 300mm for additional drip protection</li> <li>signal colour blue</li> <li>good chemical resistance*</li> </ul>
<b>PERSONAL PROTECTION</b>	✓	✓	✓	✓	✓	✓	✓
<b>LABORATORY/ PHARMA</b>	✓	✓	✓	✓	✓	✓	✓
<b>FOOD/CATERING</b>	✓	✓	✓	✓	✓	✓	✓
<b>PROFESSIONAL CLEANING/HYGIENE</b>	✓	✓	✓	✓	✓	✓	✓
<b>BEAUTY/BODY ART/ HAIRDRESSING</b>	✓	✓	✓	✓	✓	✓	✓
<b>CONSUMER/RETAIL</b>	✓	✓	✓	✓	✓	✓	✓
<b>MATERIAL</b>	nitrile						
<b>COLOUR</b>	sapphire blue	mint green	lavender blue	white	black	blue	blue
<b>EXTERIOR</b>	finger textured						
<b>INSIDE TREATMENT</b>	powder free	polymer coated	powder free				
<b>LENGTH</b> as per EN 455-2	median 240 mm						median 300 mm
<b>WALL THICKNESS</b> double measured/ typical production values	0.11 mm	0.14 mm			0.16 mm	0.20 mm	
<b>MEDICAL DEVICE DIRECTIVE</b> according to MD Directive 93/42/EEC		CE Class I					
<b>PERSONAL PROTECTIVE EQUIPMENT</b> according to PPE Regulation (EU) 2016/425		CE Category III complex risk					
<b>FOOD CONTACT</b> (EC) No. 1935/2004	✓	✓	✓	✓	✓	✓	✓
<b>EN 455</b>	✓	✓	✓	✓	✓	✓	✓
<b>ASTM F 1671</b>	✓	✓	✓	✓	✓	✓	✓
<b>EN 420</b>	✓	✓	✓	✓	✓	✓	✓
<b>EN 374-2</b>	✓	✓	✓	✓	✓	✓	✓
<b>EN 374-3/EN 16523-1</b>	✓	✓	✓	✓	✓	✓	✓
<b>AQL FOR PINHOLES</b> (inspection level G1)	1.5						
<b>PROTEINS</b>	not present						
<b>ACCELERATOR CHEMICALS</b>	present	not present	present				

\* as per chemical resistance charts found at <https://www.sempermed.com/en/knowledge-centre/chemical-resistance/chemical-resistance-semperguard/>

DISPOSABLE GLOVES						
	NITRILE	LATEX			VINYL	
	HEAVY WEIGHT	MEDIUM WEIGHT				
BRAND NAME	Semperguard® Xpert	Semperguard® Latex IC powder-free	Semperguard® Latex Comfort	Semperguard® Latex powdered	Semperguard® Vinyl powder-free	Semperguard® Vinyl powdered/blue



KEY GLOVE FEATURES	THE STRONG NITRILE	THE LATEX ALLROUNDER	THE COMFORTABLE LATEX	THE POWDERED LATEX	THE POWDER-FREE VINYL	THE POWDERED VINYL/ BLUE VINYL
PERSONAL PROTECTION	<ul style="list-style-type: none"> <li>extra wall-thickness</li> <li>high resilience</li> <li>good chemical protection*</li> <li>no silicone added</li> </ul>	<ul style="list-style-type: none"> <li>easy to don - special Sempermed innercoating</li> <li>high tear resistance/ excellent elasticity</li> <li>great sense of touch/very comfortable to wear</li> </ul>	<ul style="list-style-type: none"> <li>natural white</li> <li>chlorinated</li> <li>excellent elasticity</li> <li>good tactility/very comfortable to wear</li> </ul>	<ul style="list-style-type: none"> <li>pre-powdered</li> <li>good donnability – even in humid environment</li> <li>good price – quality ratio</li> </ul>	<ul style="list-style-type: none"> <li>clear</li> <li>free from latex proteins and accelerants</li> <li>DOP-free</li> <li>good value-for-money</li> <li>for light duty tasks or non-fatty food handling</li> </ul>	<ul style="list-style-type: none"> <li>clear or blue</li> <li>pre-powdered</li> <li>free from latex proteins and accelerants</li> <li>DOP-free</li> <li>for light duty tasks or non-fatty food handling</li> </ul>
PERSONAL PROTECTION	✓	✓	✓	✓	✓	✓
LABORATORY/ PHARMA	✓	✓	✓	✓	✓	
FOOD/CATERING	✓	✓	✓	✓	✓ (for non-fatty food)	✓ (for non-fatty food)
PROFESSIONAL CLEANING/HYGIENE	✓	✓	✓	✓	✓	✓
BEAUTY/BODY ART/ HAIRDRESSING	✓	✓	✓		✓	
CONSUMER/RETAIL	✓	✓	✓	✓	✓	✓
MATERIAL	nitrile	natural latex			vinyl	
COLOUR	blue	natural	natural	natural	clear	clear or blue
EXTERIOR	fully textured		finger textured		smooth	
INSIDE TREATMENT	powder free	polymer coated		powdered	polymer coated	powdered
LENGTH as per EN 455-2	median 240 mm					
WALL THICKNESS double measured/ typical production values	0.26 mm	0.24 mm	0.20 mm		0.15 mm	
MEDICAL DEVICE DIRECTIVE according to MD Directive 93/42/EEC		CE Class I				
PERSONAL PROTECTIVE EQUIPMENT according to PPE Regulation (EU) 2016/425		CE Category III complex risk			CE Category I minimal risk	
FOOD CONTACT (EC) No. 1935/2004	✓	✓	✓	✓	✓ (for non-fatty food)	✓ (for non-fatty food)
EN 455	✓	✓	✓	✓	✓	✓
ASTM F 1671	✓	✓	✓	✓	✓	✓
EN 420	✓	✓	✓	✓	✓	✓
EN 374-2	✓	✓	✓	✓	✓	✓
EN 374-3/EN 16523-1	✓	✓	✓	✓		
AQL FOR PINHOLES (inspection level G1)	1.5					
PROTEINS	not present	present			not present	
ACCELERATOR CHEMICALS	present				not present	

**CAUTION: Natural latex can cause allergic reactions, including anaphylactic shock. Semperit bears no liability for allergic reactions. IMPORTANT NOTE:** The latest product information is available at [www.sempermed.com](http://www.sempermed.com) under the 'Products' tab. 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 is not liable for incorrect use of the gloves nor will Semperit be liable for improper storage and handling. In case of damage or unusual signs of wear and tear, gloves shall not be used. In case of any doubt, expert advice should be sought before use. The information and classification is up to date as of the date of publication. Technical details are average values from production and may vary in individual cases. This disclaimer is subject to mistakes, printing errors and amendments. ©Copyright 2019 Sempermed

# CHEMICAL RESISTANCE LIST (as of October 2019)

The following table shows an overview of the most commonly used Semperguard® disposable gloves and the most frequently required chemical resistances. Below protective gloves have been tested in accordance with EN 374-3:2003 "Determination of resistance to permeation by chemicals" and EN 16523-1:2015 "Determination of material resistance to permeation by chemicals" and achieve following test results. **Caution: Damaged or swelling gloves shall be changed immediately! For reason of precaution it is recommended to change gloves after 2 hours.**

Break-through time according to EN 374-3

CHEMICAL (SYNONYMS)	sapphire blue	Green	Xtra Lite	Comfort	Xtension (300)	Xpert	Latex powderfree	Latex Comfort
Acetic acid (10%)	Level 3	Level 3	Level 3	Level 5	Level 4			
Acetone (2- propanone, methyl ketone)								
Acetonitrile (cyanomethane, ethyl nitrile)								
Acryl amide (40%)	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6		
Ammonium hydroxide (25%)	A		A	Level 1	Level 1	Level 1		
Benzalconiumchloride liquid (Quats)	Level 6		Level 6				Level 6	
Chlorhexidindigluconat (0,5%)			Level 6					
Chloroform (trichlormethan)								
Dichlormethan (Methyldichlorid, Freon 30)								
Diethyl amine (DEA)								
Diethyl ether (diethyloxid, ethoxyethane)								
Dimethylsulfoxid DMSO (deltan, demasorb)								
Ethanol (20%) (ethyl alcohol)	Level 6	Level 1	Level 1	Level 6	Level 1	Level 6		
Ethanol (70%) (ethyl alcohol)				A	A	Level 3		
Ethidium bromide (1%) (homidium bromide)	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6	
Ethyl acetate (Aceto acid ether)								
Fentanyl Citrate Inj. (100µg/2ml)			Level 5					
Formaldehyd (37%) with Methanol (10%)	Level 4	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6
Gasoline (Petrol, heavy, 150 - 190°C)								
Glutaraldehyde (5%) (Pentan-1,5- dial, Glutaral)	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6		
Heptane - n								
Hexane - n				A	A			
Hydrochloric acid (10%) (muriatic acid, chlorhydric acid)	Level 6	Level 6	Level 6			Level 6		
Hydrochloric acid (36%) (muriatic acid, chlorhydric acid)			A			Level 6		
Hydrofluoric acid (40%)				A	A	A		
Hydrogen peroxide (30%)	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6
Isopropyl alcohol (40%) (2-propanol, IPA)		Level 1	Level 6	Level 6	Level 6		A	
Isopropyl alcohol (70%) (2-propanol, IPA)	Level 6	Level 1	Level 6	Level 3	Level 3	Level 6		
Methanol (5%) (methyl alcohol)				Level 6	Level 6			
Methanol p.a. (methyl alcohol)								
Nitric acid (10%)	Level 5	Level 6	Level 5	Level 5	Level 6	Level 6		
Nitric acid (36%)				Level 3	Level 3			
Phenol (10%)								
Sodium hydroxide (40%) (caustic soda, lye, white caustic)	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6	Level 5
Sulfuric acid (96%) (vitriol)	A	A	A	A	Level 1	A		
Toluene (methylbenzol, phenylmethan, toluol)								
Trichlorethane (methyltrichloromethane)								
Xylene (xylo, dimethylbenzene)								

■ Not recommended

■ A: only recommended for splash protection – change gloves immediately after contact

■ Level 1 > 10 min

■ Level 2 > 30 min

■ Level 3 > 60 min

■ Level 4 > 120 min

■ Level 5 > 240 min

■ Level 6 > 480 min

□ Not tested

**IMPORTANT NOTE:** The latest chemical resistance list can be found at [www.sempermed.com/en/sempermed-informs/chemical-resistance](http://www.sempermed.com/en/sempermed-informs/chemical-resistance). Please note that the product characteristics are directly dependent on the conditions of use and on the purity of the chemical substances concerned. The chemical resistance has been assessed under laboratory conditions and cannot reflect all actual conditions. 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.