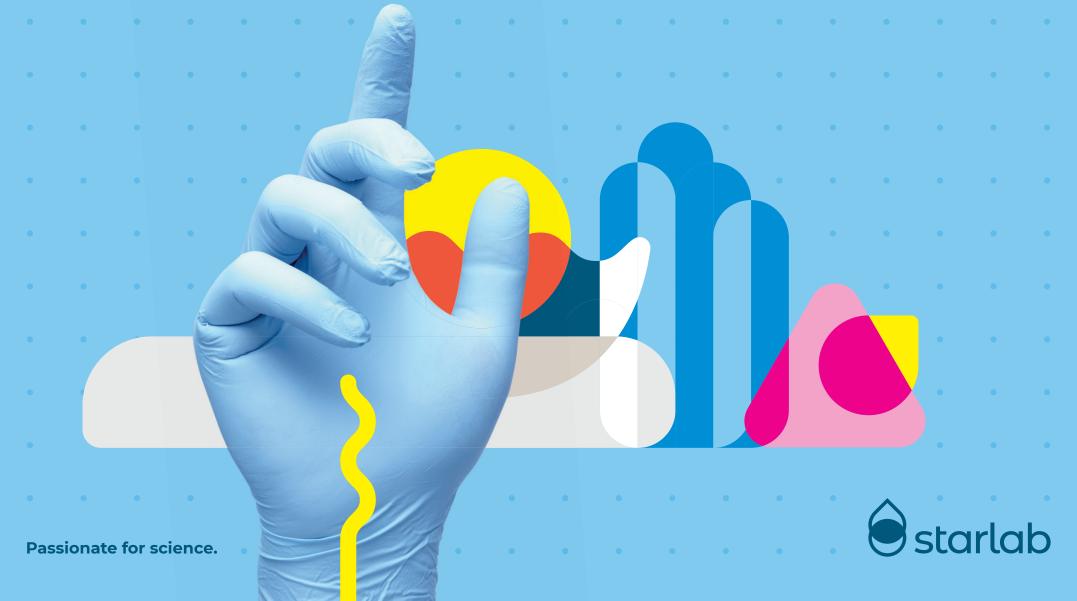
# Protection at your fingertips: your StarGuard® gloves.



- Product overview.
- For your applications.
- Environmental care.
- For the nerds: the tech specs.

# Product overview.





# What you should know about your personal protection.

### PROVIDING CERTIFIED PROTECTION

Starlab is committed to providing the best hand protection available. Our range of StarGuard® gloves are certified for PPE Compliance

### ACCEPTABLE QUALITY LEVEL

Two of our gloves have an Acceptable Quality Level (AQL) of 0.65

#### EN ISO 374-5:2016

As well as protection against bacteria and fungi, StarGuard® gloves also protect against viruses



#### EN ISO 374-1:2016

All StarGuard® gloves are classified Type B for their performance against chemical risks

# Choose the StarGuard® glove best suited to the job in hand:

### MANUFACTURED TO THE HIGHEST STANDARDS

All StarGuard® gloves are manufactured to the highest standards and are tested and certified by a third-party notified body.



#### **COMFORT**

for enhanced nitrile comfort and dexterity



#### **SENSITIVE**

comfortable nitrile protection that is clinically proven to reduce the potential of contact dermatitis



#### **PROTECT**

for nitrile strength and durability



#### **TOUCH**

if you prefer the secure grip and tactile sensitivity of latex



# Your personal protection.



#### PROVIDING CERTIFIED PROTECTION

Our range of StarGuard® gloves are in compliance with EN safety standards. For EN ISO 374-1, all gloves are classified as Type B for the requirements for chemical risks. All gloves have been tested against a variety of chemicals to EN16523-1:2015 standards. Two of our gloves have an **Acceptable Quality Level (AQL) of 0.65**. For EN ISO 374-5 for the protection against bacteria and fungi, all gloves also protect against viruses.

STARLAB is committed to providing the best hand protection available. Regardless of the application and user preferences, our StarGuard® disposable gloves offer daily protection in the laboratory without sacrificing comfort.



# The StarGuard® Comfort. Protection that fits perfectly.

# **COMFORT** for enhanced nitrile comfort and dexterity

#### **RECOMMENDED FOR USE WHEN:**

- Work demands dexterity and tactile sensitivity
- You require a lightweight glove with exceptional fit
- You want to reduce hand fatigue caused by gloves
- You need to combine comfort and chemical protection
- Testing or handling food stuffs

#### **COMBATING HAND FATIGUE**

Hand fatigue not only severely impacts the work you do today, it can also have long-term ramifications. StarGuard® Comfort is recognised as an **Ergonomic Certified** glove that provides measurable ergonomic benefits to the user by improving comfort and fit, and minimising the risk factors that may contribute to ergonomic injuries (www.us-ergo.com).





**PPE Cat. III Complex Design. Textured Fingers. 245 mm** long. 250 Gloves/Box<sup>1)</sup>

#### COMFORTABLE...

made from soft nitrile for enhanced comfort and tactile sensitivity

#### ... YET STRONG

an extremely soft but strong glove that provides excellent elasticity

#### **IMPROVED FIT** AND LONGER LENGTH

StarGuard® Comfort have snug fitting fingers and are 245 mm long to provide full cover over the wrist.

#### **ENHANCED COMFORT BY IMPROVED FIT**

An extremely soft and strong glove that provides improved tactile sensitivity to help reduce the risk of hand fatigue.

- Certified to minimise the risk of ergonomic hand injuries
- A thinner-feel nitrile glove, ideal for work that requires great dexterity
- Larger pack size helps the environment by reducing packing materials and transportation



### **Order Information**

1	
10 x 250	CC C VC
	SG-C-XS SG-C-S
10 x 250	SG-C-M
10 x 250	SG-C-L
10 x 230	SG-C-XL
<sup>1)</sup> XL :	= 230 gloves.
	10 x 250 10 x 250 10 x 250 10 x 230





# The StarGuard® Protect. Reliable, everyday protection.

# **PROTECT** for nitrile strength and durability

#### **RECOMMENDED FOR USE WHEN:**

- Everyday protection requires strength and durability
- You need excellent chemical splash protection
- A combination of protection and a reliable, consistent grip is needed
- Protection is crucial while performing delicate tasks

#### **EVERYDAY PROTECTION FROM HAZARDS**

Nitrile gloves provide the best chemical splash resistance in a disposable glove, as well as excellent barrier protection against biohazards, water miscible substances, weak acids, and alkalis (pH 4-10), aliphatic solvents and grease.



#### OUTSTANDING BREAKTHROUGH TIMES

- Acrylamide (40%) > 480 mins
- Ethidium Bromide (5%) > 480 mins
- Gluteraldehyde (50%) > 480 mins



PPE Cat. III Complex Design. Violet-Blue Nitrile Glove. Textured Fingers. 250 mm long. 100 Gloves/Box

### FOR EVERYDAY, RELIABLE PROTECTION

The durable but soft material offers excellent comfort while performing delicate tasks, without compromising splash protection.

### STRENGTH AND DURABILITY FOR RELIABLE PROTECTION

A strong and comfortable glove that provides reliable protection against day-to-day laboratory hazards.

- Combines strength and durability for everyday protection
- Comfort, tactile sensitivity and consistent grip
- Excellent chemical splash protection
- Longer glove length (250mm) covers the wrist

#### LONGER!

250 mm long to provide splash protection for your hand and wrist



### **Order Information**

DESCRIPTION	PACK SIZE	CAT. NO.
	1	
StarGuard® Protect, Nitrile Gloves, XS	10 x 100	SG-P-XS
StarGuard® Protect, Nitrile Gloves, S	10 x 100	SG-P-S
StarGuard® Protect, Nitrile Gloves, M	10 x 100	SG-P-M
StarGuard® Protect, Nitrile Gloves, L	10 x 100	SG-P-L
StarGuard® Protect, Nitrile Gloves, XL	10 x 100	SG-P-XL



# The StarGuard® Sensitive. Strong. Comfortable. Kind.

#### **SENSITIVE**

comfortable nitrile protection that is clinically proven to reduce the potential of contact dermatitis

#### RECOMMENDED FOR USE WHEN:

- Concerns with glove contaminants interfering with experiments or sensitive products must be eliminated
- Working in wet conditions
- The everyday use of small instruments demands a dexterous, lightweight glove
- Users have concerns regarding hand health
- Testing or handling food stuffs

#### LOW DERMATITIS POTENTIAL GLOVE

StarGuard® Sensitive gloves have been clinically shown to **reduce the incidence of the redness and itching associated with contact dermatitis.** They carry the US Food & Drug Administration (FDA)
authorised claim for 'Low Dermatitis Potential'. StarGuard® Sensitive
are extremely strong and comfortable, and an excellent choice for
everyday use. You don't have to be susceptible to allergies to
appreciate the quality and comfort of these gloves!





PPE Cat. III Complex Design. **Blue Nitrile Glove. Textured** Fingers. 240 mm long. 200 Gloves/Box.



#### **EXCELLENT GRIP** IN WET CONDITIONS

A reduced amount of surfactants used during the manufacture of StarGuard® Sensitive results in an improved grip in wet conditions to rival that of latex gloves.

#### **ACCELERATOR-FREE HAND PROTECTION** FOR SENSITIVE SKIN

A strong, lightweight glove that provides dexterity and comfort during long periods of wear, and is also kind to your hands.

- Low Dermatitis Potential
  - ideal for users with sensitive skin
- Contains no contaminants to interfere with experiments
- Textured fingers for improved tactile sensitivity
- Excellent grip in wet conditions

#### STRONG & KIND

nitrle glove that provides dexterity and comfort during long periods of use

#### 200 GLOVES PER BOX

helps the environment by reducing packing materials, energy and fuel to transport, and saves on storage space

### **Order Information**

DESCRIPTION	PACK SIZE	CAT. NO.
	10 × 200	SG-N-XS
StarGuard® Sensitive, Nitrile Gloves, XS	10 x 200	
StarGuard® Sensitive, Nitrile Gloves, S	10 x 200	SG-N-S
StarGuard® Sensitive, Nitrile Gloves, M	10 x 200	SG-N-M
StarGuard® Sensitive, Nitrile Gloves, L	10 x 200	SG-N-L
StarGuard® Sensitive, Nitrile Gloves, XL	10 x 200	SG-N-XL





# The StarGuard® Touch. Protection never felt so good.

## **TOUCH** if you prefer the secure grip and tactile sensitivity of latex

#### RECOMMENDED FOR USE WHEN:

- Durable comfort is required for lasting wear
- Working with blood-borne pathogens
- Secure and consistent grip is necessary for handling small instruments
- Tactile sensitivity is a must for working with a range of different instruments

Latex gloves provide the best elasticity in a disposable glove, as well as excellent barrier protection against blood-borne pathogens and other biohazards, water miscible substances, weak acids, and alkalis (pH 4-10).





#### SECURE GRIP AND TACTILE SENSITIVITY

StarGuard® Touch is a comfortable, fully-textured latex glove that provides a secure, consistent grip and excellent tactile sensitivity.

- Excellent grip in both wet and dry conditions
- Great elasticity for comfort during long periods of wear
- Ideal for work that requires great dexterity



PPE Cat. III Complex Design.
Natural Latex Glove. Fully
Textured. 245 mm long.
100 Gloves/Box<sup>1)</sup>

### **Order Information**

DESCRIPTION	PACK SIZE	CAT. NO.
	1	l
StarGuard® Touch, Latex Gloves, XS	10 x 100	SG-T-XS
StarGuard® Touch, Latex Gloves, S	10 x 100	SG-T-S
StarGuard® Touch, Latex Gloves, M	10 x 100	SG-T-M
StarGuard® Touch, Latex Gloves, L	10 x 100	SG-T-L
StarGuard® Touch, Latex Gloves, XL	10 x 90	SG-T-XL
	1) X	L = 90 gloves.
www.starlab.click/sg-touch		

#### SECURE, LATEX GRIP

Latex gloves are ideal for work with small instruments. StarGuard® Touch are fully textured for a secure, consistent grip with the tactile sensitivity of latex.



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### Choose your glove material.







# Give your hands the protection they deserve.

#### THERE ARE THREE CATEGORIES OF PPE:

- Category I (Simple Design)for use against minimal or minor risks
- Category II (Intermediate Design)
   for use against intermediate or reversible risks
- Category III (Complex Design) for use against mortal or irreversible risks

The type of markings, pictograms and info provided with a particular PPE will vary depending on what it is designed for.

Where disposable gloves are concerned, the following is used (see table opposite).



# Protective gloves against dangerous chemicals and micro-organisms.

EN ISO 374-1:2016/Type A			st (or "reference") chemicals	which are used for a	lava alagaification
EN ISO 374-1:2016/Type A				willell are used for g	love classification
		CODE	CHEMICAL	CAS NUMBER	CLASS
	Type A	А	Methanol	67-56-1	Primary alcohol
	Minimum breakthrough time for at least six reference chemicals >30 min.	В	Acetone	67-64-1	Ketone
xxxxxx		С	Acetonitrile	75-05-8	Nitrile compound
		D	Dichloromethane	75-09-2	Nitrile compound
		E	Carbon disulphide	75-15-0	Organic compound containing sulphur
		F	Toluene	108-88-3	Aromatic hydrocarbon
EN ISO 374-1:2016/Type B		G	Diethylamine	109-89-7	Amine
	Time B	Н	Tetrahydrofuran	109-99-9	Heterocyclic and ether compound
( )( )		I	Ethyl acetate	141-78-6	Ester
	at least three reference chemicals >30 min.	J	n-heptane	142-82-5	Saturated hydrocarbon
<u></u>		K	40 % Sodium hydroxide	1310-73-2	Inorganic base
XXX		L	96 % Sulphuric acid	7664-93-9	Inorganic mineral acid
		М	65 % nitric acid	7697-37-2	Inorganic mineral acid
FN ISO 374-1:2016/Type C		N	99 % acetic acid	64-19-7	Organic acid
EN 130 374-1.2010/ Type C		0	25 % ammonium hydroxide	1336-21-6	Organic base
<del>,</del>	Type C	Р	30 % hydrogen peroxide	7722-84-1	Peroxide
	Minimum breakthrough time for one reference chemical >10 min.	Q/S	40 % hydrofl uoric acid	7664-39-3	Inorganic mineral acid
		R/T	37 % formaldehyde	50-00-0	Aldehyde
х		The "refere	ence chemicals" are identified by the	eir code letter under the	flask pictogram.
no official pictogram	Level 1: AQL of 4.0 Level 2: AQL of 1.5 Level 3: AQL of 0.65	of 1.5 Lested for protection against it dud penetration and micro-organisms. Freedom from notes tested			
no official pictogram	Level 1: >10 min Level 2: >30 min Level 3: >60 min Level 4: >120 min Level 5: >240 min Level 6: >480 min	Performance Levels which describes the resistance to permeation by chemicals. Chemical Breakthrough is the time from the start of the test to the time the chemical is detected moving through the material at a defined rate of $1\mu g$ per cm² per minute. Three measurements are taken and the minimum breakthrough time is stated.			
no official pictogram	no performance requirements	Degradation is the change of puncture resistance after chemical contact with the claimed "reference chemicals" noted below the pictogram of EN ISO 374-1.			
EN ISO 374-5:2016	Minimum AQL of 1.5	Protection against bacteria and fungi.			
EN ISO 374-5:2016	< 1 PFU* within Assay titer *Plaque-Forming Unit	Clothing for protective c	protection against contact wi lothing materials to penetration		
	no official pictogram  no official pictogram  EN ISO 374-5:2016  EN ISO 374-5:2016	at least three reference chemicals >30 min.  XXX  EN ISO 374-1:2016/Type C Minimum breakthrough time for one reference chemical >10 min.  Level 1: AQL of 4.0 Level 2: AQL of 1.5 Level 3: AQL of 0.65  Level 1:>10 min Level 2:>30 min Level 3:>60 min Level 4:>120 min Level 4:>120 min Level 4:>120 min Level 6:>480 min  no official pictogram  no official pictogram  no performance requirements  EN ISO 374-5:2016  Minimum AQL of 1.5  EN ISO 374-5:2016  < 1 PFU* within Assay titer *Plaque-Forming Unit	Type B Minimum breakthrough time for at least three reference chemicals >30 min.  I at least three reference chemicals >30 min.  I mo official pictogram  I mo official pictogram  Level 1: AQL of 4.0 Level 2: AQL of 4.5 Level 3: AQL of 0.65 Level 4: >120 min Level 3: >60 min Level 4: >120 min Level 6: >480 min Degradation Level 6: >480 min  no official pictogram  N Oberromance requirements  Performance chemicals. Oberromance chemicals. Oberromance requirements  EN ISO 374-5:2016  Minimum AQL of 1.5 Protection at 150 16604: Clothing for protective chacteriopha	Type C Minimum breakthrough time for at least three reference chemicals > 30 min.  EN 150 374-1:2016/Type C  Type C Minimum breakthrough time for one reference chemical > 10 min.  Level 1: AQL of 4.0 Level 2: AQL of 1.5 Level 3: AQL of 0.65	I Ethylacetate 141-78-6   Minimum breakthrough time for at least three reference chemicals > 30 min.   I Ethylacetate 141-78-6   Minimum breakthrough time for at least three reference chemicals > 30 min.   J n-heptane 142-82-5



### StarGuard Select.

### HOW TO FIND THE RIGHT PROTECTION FOR YOUR APPLICATION

Chemical Breakthrough Times are available online. Need to find the best glove to use with the chemical you are using? We have the solution.

**STARGUARD**select can help you make the right decision quickly. **STARGUARD**select will provide you with your personal protection solution in just a few clicks. Go to www.starlabgroup.com/starguardselect

#### **HOW IT WORKS:**

A page will open with a list of chemicals that have been tested against StarGuard® gloves. Select the chemicals you need information on, and click on Next. A list of the best StarGuard gloves to wear when using the chemicals selected will be shown. You can request StarGuard® samples here too!







#### KEEP IT RIGHT TO HAND: THE GLOVE BOX DISPENSER.

Free up your valuable bench space by mounting the glove dispenser to the wall.

The epoxy-coated steel wire rack holds three boxes of gloves and is suitable for use with most brands and sizes of box. Supplied with fixings for wall mounting.

### **Order Information**

DESCRIPTION	PACK SIZE	CAT. NO.
Wire Glove Dispenser	1	E3099-3100
www.starlab.click/glove	esdispenser	



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## Environmental

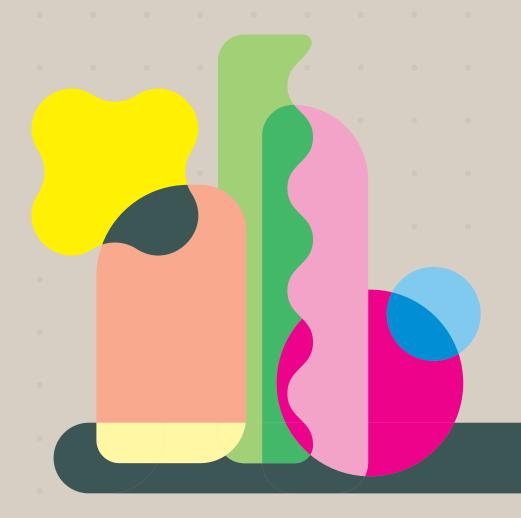
care.



# StarGuard® Gloves: maximum gloves, minimum shipping, less packaging.

- All StarGuard® gloves are supplied by the case.
- StarGuard® Comfort and StarGuard® Sensitive gloves are supplied in dispenser boxes containing 250 or 200 gloves respectively. That means that we ship in the same space, up to two and half times the capacity of gloves, compared to the usual 100 gloves per dispenser box.
- Larger pack sizes means saving on shipping space, saving on transport emissions, and saving valuable space in your lab!
- Starlab ships our gloves direct from manufacturing to our warehouse in unpallatised containers. This means our gloves have the shortest supply chain possible, and as many gloves as possible are shipped in the container at the same time.

www.starlab.click/green





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# For the nerds: the tech specs.



### **StarGuard**® Glove Specifications.









GLOVE SPECIFICATIONS	COMFORT	PROTECT	SENSITIVE	тоисн	
Gloves per Case	10 x 250 (XL 10 x 230)	10 × 100	10 x 200	10 × 100 (XL 10 × 90)	
Glove Material	Nitrile	Nitrile	Nitrile	Latex	
Туре	Powder-Free, Ambidextrous, Single Use, Non Sterile				
Colour	Light Blue	Violet Blue	Blue	Natural	
Cuff	Beaded	Beaded	Beaded	Beaded	
Texture	Fingers	Fingers	Fingers	Fully	
Weight (g)	3.5	5.2	4.2	6	
Length (mm)	245	250	240	245	
Cuff Thickness (mm)	0.06	0.09	0.06	0.10	
Palm Thickness (mm)	0.07	0.11	0.07	0.13	
Finger Thickness (mm)	0.11	0.18	0.10	0.16	

MATERIAL CHARACTERISTICS	COMFORT	PROTECT	SENSITIVE	тоисн
Minimum Elongation before Aging (%)	500	500	500	650
Elongation after Aging (%)	400	400	400	600
Tensile Strength before Aging (MPa)	33	30	29	22
Tensile Strength after Aging (MPa)	31	29	14	20
Force at Break before Aging (N)		10	7	9
Force at Break after Aging (N)	7	11	7	6



### **StarGuard**® Glove Specifications.









OHALITY	COMPORT	PROTECT	CENCITIVE	TOUGH		
QUALITY	COMFORT	PROTECT	SENSITIVE	TOUCH		
Shelf Life (years)				5		
AQL	0.65	0.65	1.5	1.5		
COMPLIANCES TO STANDARDS	COMFORT	PROTECT	SENSITIVE	тоисн		
PPE EU Regulation 2016/425		Personal Protective Equipment (PPE) Category III				
EN420		In compliance, Sizing for special purpose				
EN 374-1	Туре В	Type B	Type B	Type B		
EN374-2	Level 3 (AQL 0.65)	Level 3 (AQL 0.65)	Level 2 (AQL 1.5)	Level 2 (AQL 1.5)		
EN16523-1		In compliance, splash protection				
EN 374-4		In compliance, determination of resistance to degradation				
EN 374-5		In compliance, requirements for micro-organism risks				
EN455		In compliance with Parts 1,2,3				
ISO 11193 -1		In compliance, single-use medical examination glove				
ISO 21171/ASTM D6124		In compliance, determination of removable surface powder				
ISO 16604		In compliance, protection against penetration by blood-borne pathogens				
ASTM D6319	✓	✓				
ASTM D5712	not applicable	not applicable	not applicable	✓		
ASTM D6978-05	In com	npliance, tested for use against chemotherapy	y drugs	not applicable		
Regulation (EC) No 1935/2004	In compliance, materials and articles intended to come into contact with food					





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#### **STARGUARD® GLOVES**

Starlab is committed to providing the best hand protection available. Regardless of the application and user preferences, our range of StarGuard® disposable gloves offer daily protection in the laboratory without sacrificing comfort.

For more information on our StarGuard® gloves and details on Chemical Breakthrough Times, please see our website.

Scan QR code for more information & ordering



www.starlab.click/starguard

