

### STL-1109 Impact Resistant SFT Nitrile Glove

These gloves have strong grip properties for holding objects in dry or wet environments. Thanks to its Polyethylene + Fiberglass lining, it provides protection against cuts, abrasions and punctures. Soft nitrile coating provides liquid impermeability. It has a special plastic protection on the hand that provides protection against impacts.

#### Nitrile Coating

It is coated with nitrile material that prevents liquids from leaking in.



#### Extra Coating

Thanks to the extra coating, the glove wears later and provides long-term use.

#### Glove Reinforcement

A reinforcement made of thermoplastic rubber material has been added to protect against possible impacts from the hand. In addition to the glove's cut resistance, this reinforcement also provides protection against impacts.



#### Elastic Wrist Strap

It is designed to keep gloves fitted and to prevent exterior substances from penetrating into the gloves.

#### Marking Area

It contains all the information that should be given according to European norms. The label is sewn into gloves

#### Glove Liner

It shows high cut resistance for applications where sharp edged objects are held and mounted.

#### Edge Color

Color separation has been made on the wristband part so that the size separation can be easily detected.



### Technical Specifications

Lining Material	15-G Polyethylene + Glass Fiber + Synthetic Yarn
Coating Material	<b>SFT</b> Nitrile
Color	Blue
Sizes	9/L, 10/XL
Units per Package	40 Pairs
Packaging	4 Pairs
Category	CAT II
Standards	EN 388:2016 +A1:2018 ( <b>4X42CP</b> ) EN ISO 21420: 2020 EN 407: 2020 (X1XXXX)



SMART FOAM TECHNOLOGY



# STARLINE

## COATED AREA AND LINING MATERIAL



- Specifies the extra lower area.
- Specifies the lower area.
- Specifies the reinforcement area.

### NITRILE COATING **NBR**

These gloves protect the hands from liquid penetration through the full nitrile coating on the palm side and also provides protection against alkalies, oils, greases, animal fats and many other solvents.

### GLASS FIBER + POLYETHYLENE LINING

Seamless glass fiber + polyethylene lining ensures high cut resistance for applications where sharp-edged objects are retained and mounted.

## STANDARDS

These gloves protect hands against mechanical hazards defined in PPE Directive (EU) 2016/425. It was designed for. This product complies with EN ISO 21420 (General requirements and inspection for protective gloves).methods), EN 388 (Protection against Mechanical Risks) and EN 407 (Protection against Thermal Risks) has passed the tests.

EN 388:2016  
+A1:2018



**4X42CP**

EN 407  
:2020



**X1XXXX**

EN ISO 21420  
:2020



Dexterity Level  
(min.1-max.5): **5**

## Areas of Usage



Woodwork



Building and Construction



Glassware



Automotive and Transportation



Metal Production



Machine and Equipment



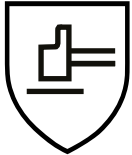
Logistics and Warehousing

These gloves are suitable for use in manufacturing of wood, wood products and cork products, manufacturing of paper and paper products, manufacturing of iron, steel and metal products, manufacturing of general purpose machines, manufacturing of planes or transport roads such as railways, automobiles, construction works in and outside of buildings, transportation and storage works, handling of glass and glass products and mechanical works.

# STARLINE

## STANDARD REMARKS

### EN 388:2016 +A1 2018



a b c d e f

#### EN 388:2016 +A1 2018 Protective Gloves for Mechanical Risks

This standard covers features and test methods for protective gloves against mechanical risks such as abrasion, cutting, tearing, puncturing.

#### FEATURES:

Protective gloves conforming to this standard must meet all applicable properties of EN 420. The performance level of a protective glove against mechanical risks should be at a higher level for one of the attributes (wear, knife cutting, tearing, puncture and impact protection) that are classified according to the least features of each level shown in the table below.

Note - Gloves that meet the specifications for puncture resistance may not be suitable for protection against sharp-pointed objects such as hypodermic needles.

The letter **X** means that the test has not been done or can not be performed.

PERFORMANCE LEVELS	1	2	3	4	5
a - Abrasion resistance (number of cycles)	100	500	2000	8000	-
b - Cut resistance (index)	1,2	2,5	5,0	10,0	20,0
c - Tear resistance (N)	10	25	50	75	-
d - Puncture resistance (N)	20	60	100	150	-

PERFORMANCE LEVELS	A	B	C	D	E	F
e - Cut Resistance (N)	2	5	10	15	22	30
f - Protection Against Impact	Pass (P) / Failed (No sign)					

### EN ISO 21420 EN ISO 21420:2020 General Specifications and Test Methods

:2020



This standard specifies the general requirements for the glove design and construction, protection against hazards, comfort, efficiency and marking and information applicable to all protective gloves. This standard also applies to arm protections.

Many gloves designed for electrical technicians or the most private applications such as surgical operations are governed by private and strict standards.

GLOVE SIZE	Fits Hand Size	Hand Circumference / Length	Minimum Glove Length
6	6	152/160 mm	220 mm
7	7	178/171 mm	230 mm
8	8	203/182 mm	240 mm
9	9	229/192 mm	250 mm
10	10	254/204 mm	260 mm
11	11	279/215 mm	270 mm

\* For more detailed information on Standards, you can obtain **EN European Glove Standards Guidelines** from [www.starlinesafety.com](http://www.starlinesafety.com).

# STARLINE

## STANDARD REMARKS

### EN 407:2020



abcdef

#### EN 407 Protection Against Temperature Risks (Heat and / or Fire)

This standard covers the properties of heat and / or fire protection gloves, the methods of testing, the information and marking required to be provided.

For protective gloves against thermal risks, the performance levels in the main pictogram are given in the following order.

- a: Burning behavior (post-flame and after burning) (0-4)
- b: Contact heat (contact temperature & threshold temperature) (0-4)
- c: Convective heat (heat transfer index) (0-4)
- d: Radiant heat (heat transfer) (0-4)
- e: Small splashes of molten metal (0-4)
- f: Large quantities of molten metal (0-4)

**NOTE:** Using an X instead of a number means "the glove is not produced for the intended use."

PERFORMANCE LEVELS		1	2	3	4
a. Resistance to burning behavior	After flare time (s)	≤ 20s	≤ 10s	≤ 3s	≤ 2s
	After glow time (s)	-	≤ 120s	≤ 25s	≤ 5s
b. Contact heat resistance	Contact temperature (°C)	100°C	250°C	350°C	500°C
	Threshold time (s)	≥ 15s	≥ 15s	≥ 15s	≥ 15s
c. Convection heat resistance (s)		≥ 4s	≥ 7s	≥ 10s	≥ 18s
d. Radiant heat resistance (s)		≥ 7s	≥ 20s	≥ 50s	≥ 95s
e. Resistance to small splashes of molten metal (drops)		≥ 10	≥ 15	≥ 25	≥ 35
f. Resistance to large quantity of molten metals (mass)		30g	60g	120g	200g

### SMART FOAM TECHNOLOGY



#### STARLINE Smart Foam Technology

**SMARTFIT:** The SFT coating penetrates halfway into the liner. The skin only contacts the soft lining. The polymer does not touch the skin. This also leads to a high amount of lining removed from the compound and an increase in hand strength, allowing for high flexibility. This flexibility allows the PFT gloves

to follow the nose of your hands more naturally. This gives the user a perfect fit that provides perfect comfort.

**SMARTBREATH:** Thanks to the "micro-capillary channels", the heat generated in the glove is immediately released to keep the hand more comfortable. These air ducts are carefully placed in the coating of the SFT gloves. Air ducts extend from inside the coating to outside of the glove.

**SMARTDURABILITY:** Using Smartdurability technology, SFT coated gloves are made extremely durable. It is at least 30% more durable than the next best glove!

**SMARTGRIP:** The ability to grip gloves thanks to micro-capillary channels is excellent on all surfaces. We do 27 different tests to see the comprehension of all end-use applications. Objects: Metal, Glass, Wood Surfaces: Rough, Smooth, Wavy Medium: Dry, Wet, Oily Total 3x3x3 = 27 CROWN TEST

# STARLINE

## USER GUIDE



### Maintenance and Cleaning

We recommend you to clean gloves by a normal detergent with 40-60°C of water with maximum of 3 times. After the washing, the performance may not be seen which it is featured in associated pictograms. It is the responsibility of user to control whether glove is suitable for intended use or not, whether it is complete or not and whether protective functions are undamaged or not. User should carry out an examination against potential defects which are likely to adversely affect protection functions (punctures, tears, damaged seams, etc.).



### Service Life

Gloves should be used within three years as of the manufacture date. Service life of the gloves are affected by several factors such as cold, hot, chemicals, sunlight and inadvisable storage.



### Storage

Storage is a part of the maintenance and cleaning but is often ignored. Protective gloves should be stored in their original packaging which will keep them away from direct sunlight, chemicals and abrasive materials and protect them against physical damages of the hard surfaces or materials when it is not used or during shipment. Product should be stored in a dry and well-ventilated place. Availability of excessive humidity or intense light may adversely affect the product quality.

## Order Information

MODEL	Size	Barcode	Box Quantity	Box Dimension	Box Weight
STL-1109	9 / L	8680907977463	40 Pairs	37 x 49 x 25 cm	10,3 kg
STL-1109	10 / XL	8680907977470	40 Pairs	37 x 49 x 25 cm	10,7 kg