

### STL-1080 Cold Work Gloves

These gloves have strong grip properties to handle objects in dry and wet environments. The outer layer of these gloves is ORRA (foam nitrile) coated, the inner layer is nylon + spandex and acrylic terry lining fabric. ORRA coating is very comfortable and user-friendly; breathable and provides maximum dexterity.

#### Glove Lining

It is an acrylic coated spandex and nylon mixture undercoat that keeps hands warm in cold environments.

**Glove Coating**  
It is coated with foam material which prevents leakage of liquids

**NBR**

#### Marking Field

Includes all information required to be provided as per the European norms.

#### Elastic Wrist

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

#### Binding Color

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

9/L

10/XL

### Technical Specifications

|                   |                             |
|-------------------|-----------------------------|
| Lining Material   | Nylon + Spandex             |
| Coating Material  | MEDIUM Foam Nitrile         |
| Color             | Phosphorous Yellow          |
| Sizes             | 9/L, 10/XL                  |
| Units per Package | 60 Pairs                    |
| Packaging         | 6 Pairs                     |
| Category          | CAT II                      |
| Standards         | EN 388:2016+A1:2018 (4232B) |
|                   | EN 511: 2006 (020)          |
|                   | EN 407:2020 (X1XXXX)        |
|                   | EN ISO 21420: 2020          |

# STARLINE

## COATED AREA AND LINING MATERIAL



■ Indicates coated parts.

### FOAM NITRILE COATING

**NBR**



These gloves protect the hands from liquid leaks thanks to the nitrile coating on the palm and fingertip. Protects from bases, oils, grease, animal oils and many solvents. Provides superior wet and dry grip.



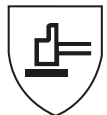
### NYLON + SPANDEX LINER

Seamless nylon + spandex lining provides excellent comfort when handling and mounting objects. Acrylic material in the hand-contacted part of the liner ensures that hands are kept warm.

## STANDARDS

These gloves are intended to protect the hands against mechanical hazards as defined in the PPE Directive 89/686 / EEC. This product is certified as per EN ISO 21420:2020 (General requirements and inspection methods for protective gloves) and EN 388:2016+A1:2018 (Mechanical risk protection), EN 511: 2006 (Cold Protective gloves) and EN 407: 2020 (Protective against thermal risks).

EN 388:2016  
+A1:2018



4232B

EN 511  
:2006



020

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

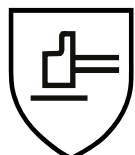


Logistics and Warehousing

For use in cold environments. It is suitable for use in cold weather storages with operations carried out in winter weather. 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.

## 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 :2020



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

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).

## STANDARD REMARKS

### EN 407:2020 EN 407:2020 Protection Against Temperature Risks (Heat and / or Fire)



abcdef

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)

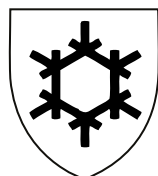
**e:** Small splashes of molten metal (0-4)

**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  |

### EN 511:2006 GLOVES PROTECTING COLD



abc

This standard applies to gloves manufactured against any cold transmitted by transport or contact at -50 ° C.

#### MARKING:

The following symbol represents cold protection gloves. The 3-digit number indicates resistance levels.

**a.** Resistance to cold conduction by transport (0-4)

**b.** Resistance to Contact Cold (0-4)

**c.** Water Permeability Resistance (0-1)

(NOTE: This type of glove should be resistant to wear and tear at least 1 level of performance.)

| PERFORMANCE VALUES              | 0        | 1             | 2             | 3             | 4       |
|---------------------------------|----------|---------------|---------------|---------------|---------|
| a. Convective Cold / Insulation | ITR<0.10 | 0.10≤ITR<0.15 | 0.15≤ITR<0.22 | 0.22≤ITR<0.30 | 0.3≤ITR |
| b. Contact Cold / Resistance    | R<0.025  | 0.025≤R<0.50  | 0.050≤R<0.100 | 0.100≤R<0.150 | 0.150≤R |
| c. Water Proof Tes / 30min.     | Negative | Positive      | -             | -             | -       |

# STARLINE



## 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 five 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-1080 | 9 / L   | 8680907959469 | 60 Pairs     | 40 x 40 x 25cm | 7,70 kg.   |
| STL-1080 | 10 / XL | 8680907959476 | 60 Pairs     | 40 x 40 x 25cm | 8.00 kg.   |