

# SILVER SHIELD®/4H® GLOVES AND ACCESSORIES



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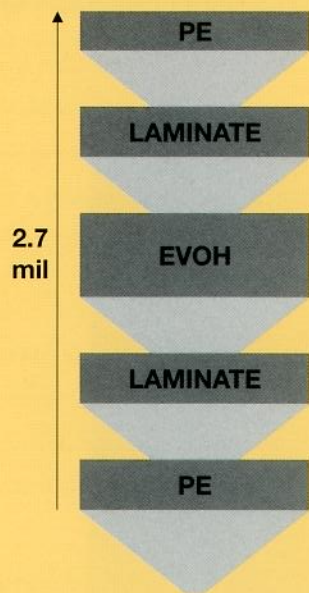


**NORTH**

*Safety Products*

## HAZARDOUS CHEMICAL PROTECTION TAKEN TO A NEW LEVEL.





## HOW CAN A 2.7 MIL THICK GLOVE PROTECT AGAINST MORE THAN 280 CHEMICALS?

North uses a 5 layer technology that is compacted into 2.7 mils. By laminating a high energy polymer (EVOH) with a low energy polymer (PE), we are able to create a 5 layer material that is impervious to at least 90% of all organic chemicals for 4 hours at 35 degrees Celsius. Each layer acts as a barrier against various epoxies and industrial chemicals.

### APPLICATIONS

Ideal for the aircraft and aerospace industry, petrochemical and refining applications, emergency response and Hazmat clean-up, chemical transporting, handling chlorinated solvents, hydrocarbons, acids and ketones, photo labs, medical labs, handling pesticides and herbicides.

### DIRECTIONS FOR USE

In many applications, such as lab work, the Silver Shield/4H gloves can be worn by themselves. However, in applications where cuts, punctures, or abrasions can occur, the Silver Shield/4H gloves make an excellent permeation-resistant liner under a protective glove that fits the application. Typical combinations could be the Silver Shield/4H glove and North nitrile or natural rubber latex gloves. Another excellent pairing is the Silver Shield/4H glove and the new Chemsoft™ Industrial nitrile glove. This glove, which is revolutionizing the industry, is an incredible 59% stretchier than the leading industrial weight nitrile glove. Its patented formula provides unprecedented dexterity and comfort.

To absorb perspiration and comfort inside the Silver Shield/4H glove, try our North inspectors gloves as an inner liner.



### FREQUENTLY ASKED QUESTIONS

***Why should I use these gloves when I can wash out the gloves that I am using now?***

Chemicals that permeate gloves can not be washed out. Silver Shield/4H gloves are disposable and once contaminated, they can be discarded after use.

***How can I get better dexterity with the Silver Shield/4H glove?***

Nitrile gloves can be used on the outside to provide the wearer with more dexterity for picking up small objects.

***What can I do to keep my hands from sweating in this glove?***

Cotton liners can be used inside of the Silver Shield/4H glove to absorb sweat. North offers a full range of lightweight cotton and nylon inspectors gloves.

***How dangerous is chemical exposure to the skin?***

Chemicals can cause irritated skin, rashes, eczema, and/or allergic reactions. When exposed to skin, these same chemicals can enter the blood stream and cause damage to your central nervous system and organs. They can also cause cancer and sensitization.





### SILVER SHIELD/4H GLOVES

Made of a unique, flexible film, Silver Shield/4H gloves come in 6 sizes and are available in 14.5" (36.8 cm) length on sizes 6-8, and a 16" (40.6 cm) length on sizes 9-11½. They are lightweight, ambidextrous and allow for maximum worker protection yet do not contain chemical accelerants that can cause allergic reactions.

**SSG/size** 50 pair/case (5 bags of 10 pair)



### SILVER SHIELD/4H ACCESSORIES

The Silver Shield/4H aprons, sleeves and booties are ideal for industrial laboratories or work environments

where the possibility of a chemical splash requires arm and body protection. The sleeved apron provides excellent protection for the arms and torso in one garment. The open back allows air circulation and prevents heat build up and discomfort inherent in suits.



These markings apply to gloves and accessories.



### SILVER SHIELD/4H BOOTIES

Can be worn as a liner under regular boots, or as a cover over shoes or boots. One size fits all. Warning: The booties offer minimal abrasion resistance and should not be worn as outer protection where risk of snags, punctures, or abrasion is high.

**SSB** 50 pair/case



### SILVER SHIELD/4H SLEEVES

Can be used with Silver Shield/4H gloves and or apron. Sleeves provide added protection for the upper arms and shoulders. Elastic bands at the shoulder and wrist ensure a snug fit. One size fits all.

**SSS** 50 pair/case



### SILVER SHIELD/4H APRON

Protects against splashes and spills. The apron is large enough to cover the front of the body and is easily adjustable using the attached ties. One size fits all.

**SSA** 50 pieces/case

### SILVER SHIELD/4H COAT APRON

Developed for people who require additional splash protection. In order to prevent penetration of liquid chemicals, the Silver Shield/4H coat apron is cut from a single piece of film. Sleeves have flexible wrist openings. A buckle closure is attached to the integrated neckband and the apron has two waistbands which are tied in the back. Weighs less than 7 oz. Available in sizes S, M, L, XL.

**SSCA/size** 10 pieces/case

Small 46" Width X 43" Length (116 cm x 110 cm)

Medium 50" Width X 50" Length (126 cm x 126 cm)

Large 54" Width X 56" Length (137 cm x 142 cm)

Extra Large 58" Width X 62" Length (147 cm x 158 cm)



| FEATURES  | BENEFITS  |
|---|---|
| Superior chemical resistance to over 280 chemicals including: aromatics, chlorinated solvents, hydrocarbons, ketones, esters.                             | Eliminates the need for stocking many different gloves to permit the handling of different types of solvents.   |
| 2.7 mil thickness   | Lightweight, reduces hand fatigue, without sacrificing dexterity.   |
| Available in 6 sizes  | Proper fit for all employees.   |
| Made of a unique, flexible film   | Conforms readily to the hand, yet provides full protection.   |
| Contains no plasticizer or compounds which can migrate out of the glove.  | Does not contain chemical accelerators that cause allergic reactions.   |
| Distinctive silver color  | Easy identification. Prevents mix-up with common, less permeation resistant heat sealed gloves.   |
| Ambidextrous  | Fits either hand.   |
| Comprehensive chemical guide included in each package.  | Can easily reference recommended breakthrough times for individual chemicals.   |
| Low cost, disposable  | Can be made readily available to workers.   |
| High quality standards  | All gloves are manually inspected. Controlled permeation and pressure testing are performed routinely to ensure barrier properties. Raw material and gloves are permeation tested according to ASTM F739 and pressure tested at ASTM 1052. EN Certified, CE 0120. |
| Can be used as a secondary glove (inner glove).   | Allows the maximum worker protection in heavy duty job applications where the dangers of mechanical damage to the glove are high.   |
| A special sealing process ensures strong seams that provide additional strength in high stress areas. Seam strength exceeds the ASTM pressure test F1052. | Stronger seams increase customer confidence and safety when handling hazardous chemicals. Reduces the chances of accidental chemical exposure due to weak seams.  |
| Available in a 14.5" (36.8 cm) length on sizes 6-8, and a 16" (40.6 cm) length on sizes 9-11½.  | The longer length provides better forearm protection from chemical splash than other competitive gloves. The additional length allows the worker to trough the glove to prevent chemical run-off.   |

| CHEMICAL PROTECTION FOR TOP 20 CONTAMINANTS |              |                          |                          |
|---|--------------|--------------------------|--------------------------|
|   |              | 21° C (70° F)            | 35° C (95° F)            |
| Chemical                                    | CAS Reg. No. | Breakthrough Time (min.) | Breakthrough Time (min.) |
| Acetone/Water 20:80                         | 67-64-1      | >240                     | >240                     |
| Acetonitrile                                | 75-05-8      | >1440                    | >240                     |
| Carbon Disulfide                            | 75-15-0      | >1440                    | >240                     |
| Dichloromethane                             | 75-09-2      | >480                     | >240                     |
| Diethylamine                                | 109-89-7     | >480                     | 6                        |
| Dimethylformamide                           | 68-12-2      | >1440                    | >240                     |
| Ethyl Acetate                               | 141-78-6     | >1440                    | >240                     |
| N-Hexane                                    | 110-54-3     | >1440                    | >240                     |
| Methanol                                    | 67-56-1      | >480                     | 30                       |
| Meth Ethyl Ketone (MEK)                     | 78-93-3      | >1440                    | >240                     |
| Methyl Isobutyl Ketone                      | 108-10-1     | >480                     | >240                     |
| Nitrobenzene                                | 98-95-3      | >1440                    | >240                     |
| Sodium Hydroxide 50%                        | 1310-73-2    | >480                     | >240                     |
| Sulfuric Acid 93%                           | 7664-93-9    | >1440                    | NT                       |
| Tetrachloroethylene                         | 127-18-14    | >1440                    | >240                     |
| Tetrahydrofuran                             | 109-99-9     | >480                     | >240                     |
| Toluene                                     | 108-88-3     | >1440                    | >240                     |

#### TEST PROCEDURE

Chemical testing as per ASTM Standard F 739.

Detection Limit 0.1 µg/cm<sup>2</sup>/min.

Chemical testing as per EN 374

#### PARTIAL LISTING ONLY.

**PLEASE SEE COMPREHENSIVE CHEMICAL GUIDE INCLUDED IN EACH PACKAGE.**

**NORTH**

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