Rubber Insulating Gloves Care/Storage/Inspection

Index/Procedure Steps:

GENERAL INFORMATION ........................................................................................................................................ 2
MARKINGS................................................................................................................................................................... 2
  MANUFACTURER’S IDENTIFICATION .................................................................................................................. 2
PRE-USE INSPECTION ............................................................................................................................................... 3
  VISUAL INSPECTION ............................................................................................................................... 3
  AIR TEST ........................................................................................................................................................ 4
CARE AND STORAGE ............................................................................................................................................... 5
PERIODIC ELECTRIC PROOF TEST ...................................................................................................................... 5,6
PROTECTOR GLOVES ............................................................................................................................................... 7
  GENERAL INFORMATION .......................................................................................................................... 7
  MARKINGS...................................................................................................................................................... 7
  CARE/USE AND INSPECTION ...................................................................................................................... 7,8
### General Information

#### Markings

**Manufacturer’s Identification**

1. Each glove shall be marked clearly and permanently with the following information on the cuff portion of the glove:
   - Manufacturer or supplier
   - ASTM D120
   - Type
   - Class
   - Size
   - Employee I.D. Number

2. A label shall be used to identify the voltage class:
   - Class 00 – beige
   - Class 0 – red
   - Class 1 – white
   - Class 2 – yellow
   - Class 3 – green
   - Class 4 – orange
# PRE-USE INSPECTION

## Visual Inspection

1. Rubber insulating gloves shall be inspected on the outside and then turned inside out for damage before each day’s use and immediately following any incident that can reasonably be suspected of having caused damage.

2. Rubber insulating gloves with any of the following defects may not be used:
   - A hole, tear, puncture, or cut;
   - Ozone cutting or ozone checking (the cutting action produced by ozone on rubber under mechanical stress into a series of interlacing cracks);
   - An embedded foreign object;
   - Any of the following texture changes: Swelling, softening, hardening, or becoming sticky or inelastic.
   - Any other defect that damages the insulating properties.

3. Rubber insulating gloves found to have other defects that might affect its insulating properties shall be removed from service and sent to a testing laboratory for inspection and test.

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**Cracking and Cutting:**
Shown above is damage caused by prolonged folding or compressing.

**UV Checking:**
Storing in areas exposed to prolonged sunlight.

**Chemical Attack:**
Swelling caused by oils and petroleum compounds.

**Avoid Folding:**
The strain on rubber at a folded point is equal to stretching the rubber to twice its length.

**Snags:**
Damage shown is due to wood and metal splinters and other sharp objects.
**Air Test**

An air test is performed to listen for pinhole leaks in the glove. Use caution not to over inflate the gloves. The inflation limits are as follows:

- **Type I** – no part of the glove shall be stretched more than twice the normal size.
- **Type II** – no part of the glove or sleeve shall be stretched more than 1.25 times the normal size.

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
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<tbody>
<tr>
<td>1.</td>
<td>Grasp glove.</td>
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<tr>
<td>2.</td>
<td>Stretch to seal closed.</td>
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<tr>
<td>3.</td>
<td>Press and roll tightly.</td>
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<tr>
<td>4.</td>
<td>Twirl glove, rotating on rolled ends.</td>
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<tr>
<td>5.</td>
<td>Entrap air by holding in one hand.</td>
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<tr>
<td>6.</td>
<td>Hold close to ear, squeeze to add pressure, listen and feel for pinhole leaks.</td>
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<tr>
<td>7.</td>
<td>Turn glove inside out.</td>
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<tr>
<td>8.</td>
<td>Repeat process.</td>
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</table>
# Rubber Insulating Gloves Care/Storage/Inspection

## CARE AND STORAGE

1. Gloves shall be stored in a location as cool, dark, and dry as possible.
2. The location should be as free as practicable from ozone, chemicals, oils, solvents, damaging vapors and fumes, and away from electrical discharges and sunlight.
3. Gloves shall be stored in their natural shape.
4. Gloves shall be kept inside of protectors or in a bag, box, or container that is designed for and used exclusively for them.
5. Gloves shall not be stored folded, creased, inside out, compressed, or in any manner that will cause stretching or compression.

## PERIODIC ELECTRIC PROOF TEST

At 6-month intervals, gloves must be sent out to an electrical testing facility. At the testing lab the following occurs:

- Check-in, washing, and preliminary inspection
- Electrical test
- Drying
- Final inspection
- Record-keeping and marking, and
- Powdering, pairing, and packing for storage or shipment

**NOTE:** Gloves that have been rejected and are not suitable for electrical service shall be defaced, cut, or otherwise marked and identified to indicate that they are not to be used for electrical service.

Arc Rated Safety can streamline this glove testing mandate by creating and maintaining a glove testing schedule for you to ensure that your gloves are meeting safety standards at all times. Each pair is inspected and tested at six (6) month intervals.

The process calls for two pair of gloves for each employee or work area depending on customers requirements. In all cases two pair of gloves is required for the six month cycle program. Arc Rated Safety uses two different colors of gloves. This helps our customer and Arc Rated Safety track the process.

The following procedure is used to establish this process for each customer:
• Customer provides a purchase order for the gloves to be purchased; it shall include type, class, size and color.
• Arc Rated Safety will provide an identifier for each pair of gloves for tracking purposes.
• After five (5) months customer will be contacted for a purchase order to purchase or/ Test the second set of gloves.
• Arc Rated Safety will deliver the second set of gloves within one week prior to the end of the six month cycle of set one.
• Customer will distribute the second set of gloves to their employees or work areas and collect the first set of gloves to be returned to Arc Rated Safety for check in and preparation for testing.
• Arc Rated Safety will contact customer five months into the usage of the second set for a purchase order for testing of set one.
• If any gloves fail testing, Arc Rated Safety will contact Customer for direction. i.e.: a purchase order to replace the failed gloves or other action.
• Arc Rated Safety will deliver the tested gloves within one week prior to the end of the six month cycle of set two.
• Please Note the 6 month time clock will start on the gloves when we ship out unless otherwise noted.
• Email Reminders will be sent to the point of contact listed on the Account /PO. It is the customer responsibility to notify Arc Rated Safety of any changes to point of contact.
• **ELECTRICAL GLOVES ARE NOT RETURNABLE**
• When sending gloves for testing send the RUBBER GLOVES ONLY. DO NOT SEND BOXES, BAGS, OR LEATHER PROTECTORS. Sending anything other than just the rubber gloves will result in an additional handling charge. Keeping your shipments to rubber gloves only also lessens your freight costs.

The process continues to repeat itself every five months to assure our customer’s gloves are always in compliance and their employees are protected.

*Important Program Note*
Arc Rated Safety requires customers who participate in the glove testing program to purchase their replacement gloves from Arc Rated Safety. In the event of glove failure, not purchasing replacement gloves from Arc Rated Safety will result in suspension from the glove program.
## PROTECTOR GLOVES

### General Information

The purpose of the leather protectors is to provide mechanical protection only for the rubber insulating gloves. The leather protectors shall not be used for electrical protection.

The top of the cuff of the protector glove shall be shorter than the rolled top of the cuff of the insulating glove (see picture above). This space between the top of the leather protector cuff and the rubber gloves cuff is the safety distance that protects you from creepage of electrical energy from the protector to you.

### MARKINGS

The leather protectors shall be clearly marked as to the following:

- Hand size of the rubber insulating glove it is designed to cover
- Overall length of the protector

**NOTE:** Each pair of protector gloves at the time of purchase shall be accompanied by a warning that the leather protectors are to be used only for mechanical protection for rubber insulating gloves and shall not be used for electrical protection.

### Care/Use and Inspection

- Protector gloves that have been used for any other purpose shall not be used to protect insulating gloves.
- Protector gloves are not subject to scheduled periodic re-testing, but must be visually inspected by the user prior to each use. Protector gloves shall not be used if they have holes, tears, or other defects that affect their ability to give mechanical protection to the insulating gloves.
• Care should be exercised to keep the protector gloves as free as possible from oils, greases, chemicals, and other materials that may injure the insulating gloves.
• Protector gloves that become contaminated with injurious materials to the extent that damage may occur to the insulating glove shall not be used as protector gloves unless they have been thoroughly cleansed of the contaminating substance.
• The inner surface of the protector gloves should be inspected for sharp or pointed objects; this inspection should be made as often as the rubber gloves are inspected.

Contamination:
Discard protectors contaminated with oil or petroleum compounds.

Embedded Wire:
Inspect for embedded wires or metal shavings that could puncture rubber gloves.

IMPORTANT GLOVE TESTING PROGRAM STEP

*** Please Do Not Skip ***

Hand out newly tested gloves to your employees
Collect their old gloves and return them to ARS in the same box

Please Return To:
Arc Rated Safety
825 Mountain Home Rd.
Sinking Spring, PA 19608