

# PD-100 Respirator

## Instruction Manual

Standard: ASTM E2952-17



Please read and understand the content of instructions before using

## **PD100 Gas Mask**

The PD100 Mask uses high quality medical grade silicon rubber compositions made with non-toxic, tasteless, and odorless materials. The mask is made to universally fit any size face to ensure a perfect airtight seal in any environment. In addition to its universal fit, the PD100 is designed for optimum comfort by using 5 individual straps to evenly distribute pressure around your face. The mask is professional grade quality with low breathing resistance. The anti-fog lens is lightweight and impact resistant. The PD100 is a great mask for all toxic conditions including but not limited to: industry, agriculture, scientific, transportation, energy, fire rescue, emergency rescue, and disaster relief.

### **CAUTION:**

1. Gas mask should not be used in environments where the oxygen level is at or below 18%. Mask should only be used in environments where temperature is -22 to 131 degrees Fahrenheit.
2. Do not use in enclosed tanks or other sealed container environments.
3. Do not exceed the maximum concentration environments set by filter labeling
4. Discontinue use if the product is cracked, damaged, or if the filter valve is deformed.
5. Always confirm the concentration and type of harmful gases in the place of operation to choose appropriate filter.
6. Check the mask and filter is functioning properly if you should begin to feel discomfort in your work, a decrease in airflow, or smell strong chemical odor.

### **Visual mask inspection**

1. Before each use, visually inspect the mask to ensure the mask is in working order
2. Check the mask seal for cracks or rips.
3. Check interior one-way valves to ensure there are no cracks or rips
4. Check the respirator (filter) seal to ensure it has not been ruptured.
5. Check to ensure the filter pods are properly installed and sealed.
6. Discontinue use if any problems are found.

## **Mask Installation**

1. Extend all five straps and pull over your head to cover the face with the mask.
2. In order to properly tighten mask, begin with pulling the top strap snug and begin to work your way down, tightening the four other straps from top to bottom.
3. Ensure the two bottom neck straps feel secure around your neck.
4. Give the mask a gentle shake to ensure a good seal against your face.

## **Mask Seal Test**

Test Method: Once securely installed on face, cover filter cartridges with the palm of your hands and inhale slowly. If you feel little or no airflow (difficult to breath) the mask is well sealed, and you may continue use. If the mask provides no resistance to airflow (easy to breath) the mask needs to be repositioned and the head straps need to be re adjusted to eliminate air leakage and provide sufficient seal.

Redo the above test until the mask seal test is satisfactory.

## **P-A-1 Style Filter Installation Instructions**

1. Locate the sealant ring on the grey threaded gas mask interface. Thoroughly inspect the ring to ensure the ring is not damaged and will seal properly.
2. Select the correct filter in accordance to the chemicals of the work being performed.
3. Remove plastic film from the filter canister.
4. Screw the filter onto the mask nozzle in a clockwise direction.

## **Bayonet Style Filter Installation Instructions**

1. Locate the grey threaded apparatus on the front of the gas mask interface.
2. Firmly grasp and turn the left and right apparatus in a counter clockwise rotation then pull directly off to remove the P-A-1 filter adapters.
3. Inspect the orange sealant ring beneath the apparatus to ensure the ring is not damaged and will seal properly on 3M filters.
4. Select the correct 3M filter in accordance to the requirements and chemicals of the work being performed.
5. Align opening of filter cartridge notches with filter attachment on facepiece.
6. Turn filter clockwise until it is firmly seated and cannot be further turned.
7. Repeat for second filter.

## **Replacement Clasp Installation Instructions**

1. Please take note of the correct install orientation of the intact clasps.
2. Remove clasp pin and lift clasp off strap
3. Place clasp over the strap (previously noted orientation) and insert clasp pin

## **Cleaning and Maintenance**

1. Clean the mask with water after use. Air dry until mask is no longer wet.
2. Do not use cleaning agents or solvents to clean the mask. It will dry out the silicone and decrease the life of the mask.
3. Discard used or expired filters in accordance with your local laws.

**Storage-** When not in use, mask should be placed in an environment that does not exceed 10 to 90 degrees Fahrenheit. Do not store with acid bases or other toxic substances.