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## TECHNICAL INFORMATION

### PU Series Filters

Catalog Nos. PU0011, PU0012, PU0013

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#### INTRODUCTION

When combined with a facepiece, respiratory filters and/or cartridges form an air purifying respirator. Air purifying respirators are used to free the inspired air from harmful gases, vapors and particles. The performance of a filter and/or cartridge conforms to National Institute of Occupational Safety and Health requirements for the device as specified in 42 CFR, Part 84. Color-coding and marking of these components conforms with the requirements of the American National Standards for Identification of Gas Mask Canisters and Cartridges, ANSI/AIHA Z88.7-2001 or with the requirements specified in 42 CFR, Part. 84.

For proper and effective use of the respirator, the user must establish and implement a complete respirator program in accordance with applicable laws and standards. For instance, Occupational Safety and Health Administration (OSHA) 29 CFR, Part 1910.134. **NOTE:** *Two identical filters must always be fitted in dual-filter masks (e.g. PU0010).*



## CAUTIONS

*For correct and effective use of the respiratory system and to avoid hazards, it is essential to read and understand the following recommendations and to act accordingly:*

- Any use of these filters and/or cartridges requires a full understanding and strict observation of these instructions.
- The mask and respiratory filters and/or cartridges may only be used for the purposes specified here.

## PREREQUISITES FOR USE

- This device does not supply oxygen, and must only be used in adequately ventilated areas containing at least 19.5% oxygen. Filter apparatuses should not be used in confined spaces (i.e. unventilated vessels, mines, sewers, etc.).
- The type and concentration of the contaminant must be known.
- Follow the valid national regulations regarding the use of respiratory equipment (e.g. OSHA 29 CFR, Part 1910.134).
- To identify the extent of the use for a filter and/or cartridge, follow a proper change-out schedule as established by your employer. Do not use damaged filters and/or cartridges.
- The life of the filters and/or cartridges depends on the kind of use (e.g. type and concentration of contaminant or the workload of the user).
- Used filters and/or cartridges must be disposed of in accordance with local regulations for the disposal of dangerous waste.
- Store filters and/or cartridges in original package until use.
- Do not use any respiratory filters for which the expiration date has been exceeded (specified on the filter).
- The filters and/or cartridges have a maximum shelf life of 6 years as from the date of manufacture.
- When changing filters in a dual-filter mask, both filters must always be replaced at the same time.
- Dual-filter masks must always be fitted with filters of the same type and class.



**DURATION OF USE**

The duration of use of a respirator filter and/or cartridge depends upon several factors such as type and concentration of the contaminant in the atmosphere, the physical work of the user, and environmental conditions such as temperature and relative humidity.

It is required by OSHA that an ESLI or appropriate change-out schedule exists as required in 29 CFR 1910.134. However, particle filters must be replaced at the latest when the breathing resistance increases strongly.

**HANDLING**

Respiratory filters and/or cartridges must be treated with care—they must not be dropped or damaged, etc. Do not insert any sharp implements into the filter. Ensure the filters and/or cartridges are tightly connected to the facepiece. The PU0011, PU0012, and PU0013 filters may only be used in the PU0010 Multi-Purpose Half Mask Regulator.

**LIMITATIONS**

Air purifying cartridge respirators and chin style gas mask respirators are prohibited for use in atmospheres immediately dangerous to life or health. The respirator is not for use in atmospheres containing <19.5% oxygen.

Do not use the respirator for protection against substances with poor warning properties (smell, taste, nose, eye, or throat irritation) or those substances which generate high heats of reaction with the absorbent materials in the cartridge.

**STORAGE, CARE AND MAINTENANCE**

Respiratory filters and/or cartridges should always be stored in dry rooms in such a way that they cannot be damaged. Make sure cartridges and/or filters are clean. Never try to clean a cartridge or filter. Prior to use, a filter and/or cartridge should be removed from its protective packaging.

Inspect filters and/or cartridges from scratches, cracks, or other damage. Any component which shows signs of damage should be discarded. **NOTE:** *Storage Temp. 14° to 131°F (-10° to 55°C); Relative Humidity 90% max.*

## **SPECIFICATIONS**

**All filters tested in accordance with NIOSH\* final rule July 10, 1995: 42CFR84**

PU0011...Filter, Organic Vapor/Acid Gas: Prevents penetration of sulfur dioxide, chlorine, carbon monoxide, hydrogen chloride and organic vapors (decomposition of animal/human tissue)

PU0012...Filter, Particulate/P100: Prevents penetration of isoamyl acetate/99.97% effective against particles of 0.3 microns or greater, DOP\*\*

PU0013...Filter, Organic Vapor/P100: Prevents penetration of isoamyl acetate, organic vapors/99.97% effective against particles of 0.3 microns or greater, DOP\*\*

**NOTE: Tests for organic vapors utilizes carbon tetrachloride.**

\*NIOSH: National Institute for Occupational Safety and Health

\*\*DOP: Dioctyl Phthalate, the most severe or degrading test aerosol known