

LIST OF NIOSH STANDARD PROTECTIONS, CAUTIONS AND LIMITATIONS FOR APPROVAL LABELS

Particulate Protection Designations

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| N100-Particulate Filter (99.97% filter efficiency level) effective against particulate aerosols free of oils; time use restrictions may apply | R100- Particulate Filter (99.97% filter efficiency level) effective against all particulate aerosols; time use restrictions may apply | P100-Particulate Filter (99.97% filter efficiency level) effective against all particulate aerosols |
| N99-Particulate Filter (99% filter efficiency level) effective against particulate aerosols free of oil; time use restrictions may apply | R99-Particulate Filter (99% filter efficiency level) effective against all particulate aerosols; time use restrictions may apply | P99- Particulate Filter (99% filter efficiency level) effective against all particulate aerosols |
| N95-Particulate Filter (95% filter efficiency level) effective against particulate aerosols free of oil; time use restrictions may apply | R95-Particulate Filter (95% filter efficiency level) effective against all particulate aerosols; time use restrictions may apply | P95-Particulate Filter (95% filter efficiency level) effective against all particulate aerosols |
| HE-High Efficiency Particulate Air filter for powered, air-purifying respirators | | |

Gas, Vapor, and Supplied Air Protection Designations:

AG- Acid Gas (gas mask only)
 AM- Ammonia
 CD- Chlorine dioxide
 CF- Continuous flow
 CL- Chlorine
 CN- Chloroacetophenone
 CO- Carbon monoxide
 CS-Chlorobenzylidene malononitrile
 DE- Demand
 EO- Ethylene oxide
 FM- Formaldehyde
 HC- Hydrogen chloride
 HF- Hydrogen fluoride
 HN- Hydrogen cyanide
 HS- Hydrogen sulfide
 MA- Methylamine
 MV- Mercury vapor
 ND-Nitrogen dioxide
 OV- Organic vapor
 PD- Pressure demand
 PH- Phosphine
 SA- Supplied-air
 SB- Supplied-air Abrasive Blast
 SC- Self-contained
 SD- Sulfur dioxide
 VC- Vinyl chloride
 TDI- Toluene diisocyanate
 ESC- Escape

CBRN-Specific Letter Designations

CBRN- Chemical, Biological, Radiological and Nuclear

Cap - Tested Capacity (Cap 1, Cap 2, Cap 3, Cap 4)

General CAUTIONS AND LIMITATIONS

A-Not for use in atmospheres containing less than 19.5 percent oxygen.

B-Not for use in atmospheres immediately dangerous to life or health.

C-Do not exceed maximum use concentrations established by regulatory standards.

D-Air-line respirators can be used only when the respirators are supplied with respirable air meeting the requirements of CGA G-7.1 Grade D or higher quality.

E-Use only the pressure ranges and hose lengths specified in the User=s Instructions

F-Do not use powered air-purifying respirators if airflow is less than four cfm (115 lpm) for tight fitting facepieces or six cfm (170 lpm) for hoods and/or helmets.

G-If airflow is cut off, switch to filter and/or cartridge or canister and immediately exit to clean air.

H-Follow established cartridge and canister change schedules or observe ESLI to ensure that cartridges and canisters are replaced before breakthrough occurs.

I-Contains electrical parts that may cause an ignition in flammable or explosive atmospheres.

J-Failure to properly use and maintain this product could result in injury or death.

K-The Occupational Safety and Health Administration regulations require gas-proof goggles to be worn with this respirator when used against formaldehyde.

L-Follow the manufacturer's User=s Instructions for changing cartridges, canister and/or filters.

M-All approved respirators shall be selected, fitted, used, and maintained in accordance with MSHA, OSHA, and other applicable regulations.

N-Never substitute, modify, add, or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer

O-Refer to User=s Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.

P-NIOSH does not evaluate respirators for use as surgical masks.

S-Special or critical User=s Instructions and/or specific use limitations apply. Refer to User=s Instructions before donning.

AA-This respirator is to be used for escape only and will protect against the inhalation of certain respiratory hazards.

BB-Not for use for entry into atmospheres immediately dangerous to life or health.

CC-For entry, do not exceed maximum use concentrations established by regulatory standards.

FF- Respirators are to be fit tested prior to use with the heaviest cartridges, canisters, filters and/or accessories intended to be used. Fit testing should also be conducted while wearing all personal protective equipment intended to be used. See User's Instructions for fit test requirements.

LL-This respirator contains filter or cartridge components that are not approved for all protections in all configurations. Check the specific row on the NIOSH approval label to ensure proper use.

CBRN- Specific CAUTIONS AND LIMITATIONS

Q-Use in conjunction with personal protective ensembles that provide appropriate levels of protection against dermal hazard

R-Some CBRN agents may not present immediate effects from exposure, but can result in delayed impairment, illness, or death.

T-Direct contact with CBRN agents requires proper handling of the respirator after each use and between multiple entries during the same use. Decontamination and disposal procedures must be followed. If contaminated with liquid chemical warfare agents, dispose of the respirator after decontamination.

U-The respirator should not be used beyond 6 hours after initial exposure to chemical warfare agents to avoid possibility of agent permeation.

V-Not for use in atmospheres immediately dangerous to life or health or where hazards have not been fully characterized.

W-Use replacement parts in the configuration as specified by the applicable regulations and guidance.

X-Consult manufacturer's User's Instructions for information on the use, storage, and maintenance of these respirators at various temperatures.

Y-The respirator provides respiratory protection against inhalation of radiological and nuclear dust particles. Procedures for monitoring radiation exposure and full radiation protection must be followed.

Z-If during use, an unexpected hazard is encountered such as a secondary CBRN device, pockets of entrapped hazard or any unforeseen hazard, immediately leave the area for clean air

DD-This respirator provides respiratory protection against inhalation of certain gas and vapor chemical agents, biological particulates, and radiological and nuclear dust particles. This respirator provides limited dermal (skin) protection to the head area and eyes.

EE-Eye irritation may be experienced based upon the CBRN agent and exposure (concentration and duration).

JJ-CBRN Agents, depending on how they are used, may provide disabling effect as a result of skin exposure.

GG-Direct contact with CBRN agents requires proper handling of the respirator after use. Correct disposal procedures must be followed.

HH-When used at defined occupational exposure limits, the rated service time cannot be exceeded. Follow established canister change out schedules or observe End of Service Life Indicators to ensure that canisters are replaced before breakthrough occurs.

II-This respirator provides protection from certain inhalation hazards associated with fire.

NN-This respirator is a one-time-use device with no replaceable parts. Discard after use regardless of contaminant exposure.

QQ-Use in conjunction with personal protective ensembles that provide appropriate levels of protection against dermal hazard. Failure to do so may result in personal injury even when the respirator is properly fitted, used, and maintained.

UU-The respirator should not be used beyond eight (8) hours after initial exposure to chemical warfare agents to avoid possibility of agent permeation. If liquid exposure is encountered, the respirator should not be used for more than two (2) hours.

VV- PAPRS with TC-23C approvals may NOT be used for escape from IDLH atmospheres.

COMPLETE LIST OF NIOSH STANDARD CAUTIONS AND LIMITATIONS BY BASIC RESPIRATOR TYPE

Filtering Facepiece: A, B, C, J, M, N, O, P

Chemical Cartridge (no filter): A, B, C, H, I*, J, K*, L, M, N, O, S*AA*, FF

Chemical Cartridge (with filter): A, B, C, H, I*, J, K*, L, M, N, O, P, S*AA*,FF

Gas Mask: A, H, I*, J, L, M, N, O, P, S*, AA*, BB, CC, FF

PAPR (HEPA only): A, B, C, F, I*, J, L, M, N, O, P, S*, AA*, FF*

PAPR (G/V cartridge only): A, B, C, F, H, I*, J, K*, L, M, N, O, S*, FF*

PAPR (G/V cartridge & HEPA): A, B, C, F, H, I*, J, K*, L, M, N, O, P, S*, FF*

PAPR Gas Mask: A, F, H, I*, J, L, M, N, O, P, S*, BB, CC, FF*

SAR (Air Line): A*, B, C, D, E, I*, J, K*, M, N, O, S*

SAR combination (with cart. and/or filter) A*, B, C, D, E, G, H, I*, J, K*, L*, M, N, O, P, S*, AA, FF*

SCBA: I*, J, M, N, O, S

CBRN APR: A, I*, J, L, M, O, R, S*, T, V, W, X, Y, Z, CC, HH, QQ, UU

CBRN APER: A, I*, J, L, M, O, R, S*, X, AA, DD, EE, GG, II, JJ, NN

CBRN PAPR (loose fit 23C) A, B, C, F, H, I*, J, L, M, N, O, R, S*, Y, GG, QQ, UU, VV
CBRN PAPR (tight fit 14G) A, F, H, I*, J, L, M, N, O, R, S*, Y, Z, BB, CC, GG, UU, VV
CBRN SCER: I*, J, M, N, O, S*, R, X, AA, BB, DD, EE, JJ, GG, II, NN
CBRN SCBA: I*, J, M, N, O, S, Q, R, T, U

* Notes:

- A- For a SAR, this is not needed if the unit is equipped with an escape bottle
- I- Applies if the respirator contains electrical components and the intrinsic safety has not been evaluated and approved by MSHA or a recognized independent laboratory.
- K- When used with half mask, gas proof goggles are required.
- S- With unique or unusual design or critical operation requirements
- AA- Depending on use or design such as a mouthbit
- II- Applies only with CO protection
- FF- If face-mounted cartridge or canister only
- LL- If protection varies depending on assembled configuration

Closed Circuit SCBA: An S will be assigned to all units referring users to the Special section in the User's Instructions. The User's Instructions are to call out the following wording as listed in Federal Register Notice Volume 50. No. 222 published 11/18/85:

Limitations:

- Do not use this apparatus where there is direct exposure to flames or in high radiant heat (this limitations applies to 100 percent oxygen apparatus only
- Provide proper care, training and maintenance of the apparatus as specifically described in the manufacturer's instructions and maintenance manuals.
- After each use of this apparatus, a fully charged breathing gas container and a recharge of carbon dioxide scrubber shall be installed.
- Thorough cleaning and disinfecting of facepiece, breathing tube and breathing bag must be done in accordance with manufacturer's instructions

Cautions:

- Keep exposed hair to a minimum when using apparatus near open flames or in radiant heat
- A good facepiece seal is important since facepiece leakage will seriously reduce service time
- Use of pure oxygen or oxygen enriched air increases flammability and lowers the ignition temperature of most materials.

Cautions and limitations may vary or additional ones may apply depending on design and performance.

Combination units usually require all cautions and limitations from either type.

Cautions and limitations for Self Contained Self Rescuers (SCSRS) and Filter Self Rescuers (FSR) will be determined based on design and use.
