

INFORMATION FOR YOUR SAFETY



Type of Filters and Efficiencies

Filters are classified in two ways, the Filter Type and the Efficiency. Each group has three levels, for a total of nine possible filter classifications.

NIOSH 42CFR84:

Personal Protective Equipment Particulate Respirator Filter Definitions

Filter Series	Filter Designation	Min. Efficiency
N (Non-Oil)	N100	99.97%
	N99	99%
	N95	95%
R (Oil-Resistant)	R100	99.97%
	R99	99%
	R95	95%
P (Oil-Proof)	P100	99.97%
	P99	99%
	P95	95%

Respirator Cartridge Color Coding

Cartridge Color	Cartridge Use
Black	OV: organic vapors
White	AG: acid gases
Yellow	OV/AG: organic vapors, acid gases
Green	AM/MA: ammonia, methylamine
Brown	OV/AG/AM: organic vapors, acid gases, ammonia
Tan	OV/CL/CD/HC/HF/SD/F/HS (escape)/ AM/MA: Organic vapors, chlorine dioxide, hydrogen chloride, hydrogen fluoride, sulfur dioxide, formaldehyde, hydrogen sulfide (E), ammonia, methylamine
Olive	Other Vapors and gases or combinations not listed above

Type of Respirators

Air-Purifying Respirators are available in half masks and full facepieces. The wearer draws the contaminated air through cartridges and/or filters which remove the contaminants from the ambient air.

Disposables (Filtering Facepieces) These maintenance-free respirators have many advantages such as comfort, lightweight composition, availability of adjustable straps, as well as overall economy. Depending on your applications, you can select a respirator that offers the features and technologies that best meet your needs.



Maintenance Free with or without replaceable filter: Already assembled with a variety of gas or chemical cartridges, these respirators are economically priced to be disposed of after their predetermined usage. Filters are also available for additional protection against particulates and other nuisance odors.

Reusable. Specifically designed to offer versatility, comfort and long life. Filters and/or cartridges are available for many applications. Many styles also can be adapted to a PAPR or Supplied Air respirator.



Powered Air Purifying Respirators (PAPR) These respirators feature a blower that draws air through cartridges or filters which remove the contaminants from the ambient air. Since the blower provides a continuous flow of air to the wearer, PAPR are often more comfortable than air-purifying respirators.

Facepiece mounted. The blower is mounted on the facepiece or helmet and are usually more economical than the belt mounted PAPR. This type is only available with particulate filters.



Belt mounted. The blower is mounted on the belt, and is often available with filters, cartridges and filter/cartridge combinations.

Supplied Air. Airline respirators can be continuous flow or pressure demand. Fresh, contaminant free air is supplied to the facepiece or hood using up to 300' of hose to deliver the air from a remote source.

Continuous Flow. Air is supplied at a continuous rate.
Pressure Demand. Air is supplied on demand, or as the worker breathes. The faster and harder the wearer inhales, the more air is delivered.



Types of masks for PAPR and Supplied Air

- Tight-fitting half masks
- Tight-fitting full facepieces
- Hoods
- Loose-fitting facepieces
- Helmets

Sources of air for Supplied Air. Airline respirators can be continuous flow or pressure demand. Fresh, contaminant free air is supplied to the facepiece or hood using up to 300' of hose to deliver the air from a remote source.

- Ambient Air Pumps
- Compressor
- Cylinder

Self-Contained Breathing Apparatus (SCBA) These systems are designed to let users transport their own supply of air. SCBA provides the protection needed in IDLH environments.



Emergency Escape only Breathing Apparatus (EEBA) These lightweight systems utilize small cylinders of air for quick and safe exits from emergency situations.



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