



## FEATURES

- Less cost than conventional full-facepiece respirators.
- Flexible urethane lens allows the facepiece to conform to the wearer's facial contours.
- 40% lighter than conventional full-facepiece style respirators.
- Small, medium and large sizes fit a wide variety of faces.
- Bayonet-mounted filters, cartridges and combination cartridges feature low lug height for easy attachment.
- Cartridges are color-coded for easy identification.

## DESCRIPTION

For those operations that require low-maintenance respirators, the Advantage 1000 full-facepiece air-purifying respirator provides protection against a variety of respiratory hazards.

Created with economy and ease-of-use in mind, this negative-pressure respirator requires only routine filter replacement. When the facepiece wears out, the complete unit can be replaced.

The respirator comes in a convenient storage/disposal bag imprinted with instructions for donning and use on the back of the bag.

## APPLICATION

Low-maintenance respirators are suitable for a variety of applications.

In situations where individual employees are assigned the task of respirator care, low-maintenance respirators are convenient because the only service required is routine washing and inspection.

Low-maintenance respirators are also advantageous when respirator use is infrequent and daily care is not required. And, they can be used in situations where cleaning is difficult because of exposure to grease, grime, coatings or other contaminants that make it more economical to use and discard a low-maintenance respirator.

Even if a facility has a centralized respirator maintenance program, low-maintenance respirators are sometimes used in select departments, where specialized needs exist.

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## ADVANTAGE® 1000 RESPIRATOR

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The full-facepiece Advantage 1000 Respirator is constructed of super-soft black-colored Hycar rubber that provides the feel and comfort of silicone, but with better chemical permeation resistance. For exceptional fit, the facepiece has a unique inturred lip seal that provides the best possible seal against a wide range of facial contours. It is available in three sizes.

The Advantage 1000 Facepiece also features a distinctive, flexible urethane lens that is integrally bonded to the face seal, eliminating the need for rigid lens retainers that can cause unwanted pressure points. The lens is so flexible that it can literally be folded in half without breaking or losing resiliency. This helps the facepiece better conform to the wearer's unique facial contours and provides an improved field of vision.

Standard equipment includes a speaking diaphragm for clear, short-range communications and a nose cup, to reduce lens fogging in low temperatures or high-humidity conditions.

The optional, clip-on lens shields provide added radiation protection in nuclear environments and extended lens life.



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### ORDERING INFORMATION

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<b>Description</b>	<b>Small</b>	<b>Medium</b>	<b>Large</b>
Advantage 100 Respirator, with speaking diaphragm and nose cup	<b>805414</b>	<b>805408</b>	<b>805420</b>

The Advantage 1000 Facepiece is based on proven computer-aided design research conducted by MSA. The facepiece is held in place by a fully elastic, six-point head harness that adjusts easily, speeding donning and doffing. This harness style also reduces hair pulling.

In addition to low-maintenance convenience, the Advantage 1000 Respirator is 40 percent lighter and considerably less expensive than conventional full-face respirators. It also uses the same cartridges as the Advantage 200 Respirator.

Requiring only routine filter replacement, the Advantage 1000 Respirator is approved by NIOSH for use against a variety of respiratory hazards.



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## LIMITATIONS

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As an air-purifying device, the Advantage 1000 Respirator must not be used in atmospheres containing less than 19.5 percent oxygen, or in atmospheres immediately dangerous to life or health (IDLH).

The Advantage 1000 Respirator must not be worn for protection against gases or vapors with poor warning properties.

The Advantage 1000 Respirator must not be used in atmospheres containing more than 100 times the exposure limit for the contaminant present.

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## FILTERS AND CARTRIDGES

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Users can choose from a complete line of cartridges that protect against a wide variety of contaminants. Filter cartridges protect against dusts, particles and mists. Chemical cartridges protect against gases and vapors. Combination cartridges deliver protection from both particulate and gaseous contaminants.

The GME and GME P100 Super Cartridges from MSA are designed to be used for any application where GMA, GMB, GMC, GMD or GMF cartridges are currently being used.

The GME Super Cartridge provides protection from 10 specific gases and vapors. Adding a prefilter to the GME, adds protection against paints, pesticides, dusts, mists and fumes.

A combination cartridge, the GME-P100 Super Cartridge is NIOSH-approved for 16 specific compounds including gases, vapors, toxic dusts and mists.

Designed for easy installation, Advantage Series Cartridges use the latest bayonet-style mounting design. Featuring a low lug height and lead-in connectors, the cartridges lock into place with a single twist. An advanced engineering design makes negative pressure fit-testing easier to perform.

All cartridges are interchangeable between the Advantage 200 and 1000 Respirators and are color-coded to indicate the type of protection offered. Most cartridges are incinerable.

The complete Advantage line of particulate, chemical and combination cartridges are approved under 42 CFR Part 84.



*Advantage 1000 Respirator – low maintenance, easy cleanup, flexible lens.*

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# ADVANTAGE® CARTRIDGE ORDERING INFORMATION

MSA Cartridge Designation	Part No.	Acid Gases										See Notes Below			
		Organic Vapor	Chlorine	Sulfur Dioxide	Chlorine Dioxide	Hydrogen Dioxide	Hydrogen Chloride	Ammonia	Methylamine	Formaldehyde	Hydrogen Fluoride		Mercury Fluoride	Filter Type & Efficiency***	
GMA (OV)	815355 (2 in pkg.)												with R95	with N95	2,3
GMA (P100)	815362 (2 in pkg.)														2,3,4
GMB (AG)	815356 (2 in pkg.)												with R95	with N95	2
GMB (P100)	815363 (2 in pkg.)														2,4
GMC (OV/AG)	815357 (2 in pkg.)												with R95	with N95	2,3
GMC (P100)	815364 (2 in pkg.)														2,3,4
GMD (AM/MA)	815358 (2 in pkg.)												with R95	with N95	2,3
GMD (P100)	815365 (2 in pkg.)														2,3,4
GME (Multigas)	815359 (2 in pkg.)												with R95	with N95	2,3
GME (P100)	815366 (2 in pkg.)														2,3,4
GMI (P100) **	815641 (2 in pkg.)														2,4
Mersorb	815361 (2 in pkg.)												with R95	with N95	2,4
Mersorb (P100)	815368 (2 in pkg.)														2,4
Low Profile (P100)	815369 (2 in pkg.)														1,4
Stand-alone & cover	816662 N95 (10 in pkg.) 816661 N95 (50 in pkg.) 809999 Adapters (2 in pkg.; 2 req.) 489353 Reusable snap-on cover (1 in pkg.; 2 req.)														1
Prefilter & cover	815394 N95 (10 in pkg.) 816357 N95(50 in pkg.) 815392 Reusable snap-on cover (2 in pkg.; 2 req.)														1
Prefilter & cover	815397 R95 (20 in pkg.) 815401 R95 Reusable snap-on cover (1 in pkg.; 2 req.)														1

N95, covers and adapters required for Advantage Respirators.

\*Escape only. \*\* Effective against, but not NIOSH approved for Iodine Vapor.

## ! WARNING

Below is a partial list of gaseous materials for which chemical cartridge respirators must not be used for respiratory protection (for routine use) regardless of concentration or time of exposure unless: (1) the cartridge is equipped with an end-of-service-life indicator, or (2) a documented cartridge change-out schedule is developed based in objective information or data (including MSA service-life performance data against the specific material) that will ensure that cartridges are changed before the end of their service life. Failure to follow this warning can result in serious personal injury or death. This partial list is far from complete and is offered as a guide to many of the contaminants found in industry. Contact MSA for further information on other specific materials.

Acrolein	Hydrogen cyanide	Nitric acid	Phosphorus trichloride
Aniline	Hydrogen selenide	Nitro compounds	Stibine
Arsine	Methanol	Nitrogen oxides	Sulfur chloride
Bromine	Methyl bromide	Nitroglycerin	Urethane or other
Carbon monoxide	Methyl chloride	Nitromethane	diisocyanate-
Diisocyanates	Methylene chloride	Phosgene	containing paints
Dimethyl sulfate	Nickel carbonyl	Phosphine	Vinyl chloride

### \*\*\* Definitions

**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.

**P100-Particulate Filter (99.97% filter efficiency level)** effective against *all* particulate aerosols.

### Notes

1. Do not use in atmospheres containing less than 19.5 percent oxygen, in atmospheres containing gases or vapors or in atmospheres immediately dangerous to life and health.
2. Do not use in atmospheres containing less than 19.5 percent oxygen, or in atmospheres immediately dangerous to life and health.
3. Do not wear for protection against organic vapors with poor warning properties or those which generate high heats of reaction with the sorbent material in the cartridge.
4. 99.97 percent efficient against 0.3 micron DOP.

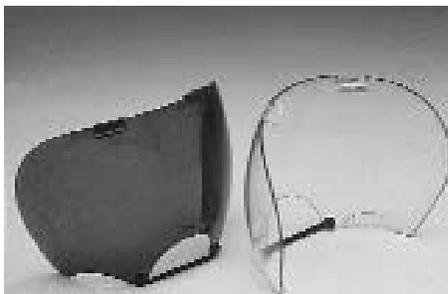
## ADVANTAGE 1000 ACCESSORIES



### ESP® Communications System

The ESP unit consists of a battery-operated microphone and speaker, housed within a waterproof, injection-molded, high-strength polymer case. It weighs 8 ounces. For more complete information, see Data Sheet 01-01-21.

Part No.	Description
805074	ESP System Conversion Kit for Advantage 1000 Facepiece (battery not included)



### Lens Shields

For added impact protection, a polycarbonate lens shield clips into place on the Advantage 1000 Facepiece. For nuclear personnel, the lens shield provides an additional level of eye protection and increased beta-radiation protection.

Part No.	Description
806463	Clear Small
806462	Clear Medium/Large
806465	Tinted Small
806464	Tinted Medium/Large



### Spectacle Kit

For use by workers who must wear corrective lenses, easily inserted into the facepiece. Kit includes wire support, rubber guide and one pair of metal-frame spectacles.

Part No.	Description
816137	Prescription Spectacle Kit, Universal bridge, 44mm lens size (less lenses); for use with Advantage 1000 Facepiece



### Cover Lens for Advantage 1000 Respirator

This clear, flexible cover lens protects the facepiece lens from scratches during storage, handling and use.

Part No.	Description
813832	Advantage 1000 Cover Lens, package of 25



### MSA Confidence Plus™ Germicidal Cleaner

Mix with warm water for a germicidal cleaner that is effective against various micro-organisms including immunodeficiency virus Type 1 (HIV-1) (associated with AIDS). EPA approved for use on safety equipment.

Part No.	Description
10009971	MSA Confidence Plus Germicidal Cleaner in 32 oz. bottle.



### Carrying Pouch

Belt-mounted carrying pouch with Velcro closures.

Part No.	Description
817040	Belt-mounted carrying pouch for Advantage 1000 Respirator



**Probe Assembly for Advantage 1000**

Probe Assembly for quantitative fit testing the Advantage 1000. Probe assembly replaces the speaking diaphragm. Consists of a probed disc with tubing, a wrench to remove the speaking diaphragm retaining ring, and instructions.

Part No.	Description
10006227	Probe Assembly for Advantage 1000 Respirator



**Personal Safety Equipment Towelettes**

Provides an excellent method for wiping and refreshing respirators, hard hats and other safety equipment between full cleaning periods.

Part No.	Description
697382	Canister with 220 towelettes
697383	Box of 100 individually wrapped towelettes



**Online Response® Respirator Selector**

Available on the Internet at [www.MSAnet.com:8001](http://www.MSAnet.com:8001). Online Response Respirator Selector helps identify the proper respirator you need from the broadest range of respiratory protective devices available. Recommends respirators for more than 700 chemical hazards, has nearly 3,000 chemical synonyms, and lists up to 27 categories of respirators, with MUCs. Is generic in nature.

**Qualitative Fit Test Kits**

Allow users to qualitatively check the fit of all MSA respirators. The kits use Bitrex, isopentyl acetate (banana oil) or saccharin as testing agents.

**Banana Oil Qualitative Fit Test Kit**

Part No.	Description
801628	Qualitative Fit Test Kit, in cardboard box
801629	Qualitative Fit Test Kit, in Pelican <sup>®</sup> case

**Qualitative Fit Test Kits**

Part No.	Description
697287	Saccharin Qualitative Fit Test
697444	Bitrex Qualitative Fit Test Kit



**Training Aids**

MSA offers a videotape training program on the Advantage Respirators.

Part No.	Description
697179	"Proper Care and Use of the Advantage 1000 Respirator"



**Comfo Cartridge Adapter for Advantage 200/1000 Respirators**

This adapter allows for the use of threaded Comfo Cartridges on the Advantage 200 Half-mask Respirator or Advantage 1000 Full-face Respirator.

Part No.	Description
809999	Advantage Adapter, package of 2



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