

Bayonet-Style Respirator Cartridges

The Advantage Respirator line of particulate, chemical and combination cartridges is NIOSH-certified to 42 CFR, Part 84, and provides lightweight, low-profile performance. Cartridges fit Advantage 200 LS, and 420 Half-Masks, 1000, 3000, and 4000 Series Full-Facepiece Respirators.

MSA Cartridge Description	Re-Order Part Number	Color Coding	OV	CL	SD	CD	HC	HS*	AM	MA	FM	HF	MV	P100	R95	N95	See Notes below
GMA	815355																2,3
GMA with N95 Prefilter	815355 with 815394 or 816357																2,3
GMA with R95 Prefilter	815355 with 815397																2,3
GMA P100	815362																2,3,4
GMB	815356																2
GMB with N95 Prefilter	815356 with 815394 or 816357																2
GMB with R95 Prefilter	815356 with 815397																2
GMB P100	815363																2,4
GMC	815357																2,3
GMC with N95 Prefilter	815357 with 815394 or 816357																2,3
GMC with R95 Prefilter	815357 with 815967																2,3
GMC P100	815364																2,3,4
GMD	815358																2,3
GMD with N95 Prefilter	815358 with 815394 or 816357																2,3
GMD with R95 Prefilter	815358 with 815397																2,3
GMD P100	815365																2,3,4
GME	815359																2,3
GME with N95 Prefilter	815359 with 815394 or 816357																2,3
GME with R95 Prefilter	815359 with 815397																2,3
GME P100	815366																2,3,4
GMI P100**	815641																2,4
Mersorb® Cartridge	815361																2,4
Mersorb with N95 Prefilter	815361 with 815394 or 816357																2,4
Mersorb with R95 Prefilter	815361 with 815397																2,4
Mersorb P100	815368																2,4
Low-Profile P100	815369																1,4
N95 Snap-On Prefilter and Cover	815394 Pack of 10 816357 Box of 50 815392 Reusable Snap-On Cover 2 in a package	⚠ WARNING															
R95 Snap-On Prefilter and Cover	815397 Box of 20 815401 Reusable Snap-On Cover 2 in a package	An appropriate cartridge change-out schedule must be developed by a qualified professional, unless the cartridge/canister utilizes an end-of-service-life indicator. The change-out schedule must take into account all factors that may influence respiratory protection including specific work practices and other conditions unique to the worker's environment. If using against substances having poor warning properties, there is no secondary means of knowing when to replace the cartridges/canister. In such cases, take appropriate additional precautions to prevent overexposure, which may include a more conservative change-out schedule or using an air supplied respirator.															

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.		An appropriate cartridge change-out schedule must be developed by a qualified professional, unless the cartridge/canister utilizes an end-of-service-life indicator. The change-out schedule must take into account all factors that may influence respiratory protection including specific work practices and other conditions unique to the worker's environment. If using against substances having poor warning properties, there is no secondary means of knowing when to replace the cartridges/canister. In such cases, take appropriate additional precautions to prevent overexposure, which may include a more conservative change-out schedule or using an air-supplied respirator or SCBA. Failure to follow this warning can result in serious personal injury or death. As a reference, below is a partial list of substances having poor warning properties:			
* Escape only. ** Effective against, but not NIOSH-approved for iodine vapor.		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 diisocyanate-containing paints
		Carbon monoxide	Methyl chloride	Nitromethane	Vinyl chloride
		Diisocyanates	Methylene chloride	Phosgene	
		Dimethyl sulfate	Nickel carbonyl	Phosphine	

- 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.

Note: This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.

Corporate Headquarters
P.O. Box 426, Pittsburgh, PA 15230 USA
Phone 412-967-3000
www.MSAnet.com
U.S. Customer Service Center
Phone 1-800-MSA-2222
Fax 1-800-967-0398
MSA Canada
Phone 1-800-672-2222
Fax 1-800-967-0398

MSA Mexico
Phone 01 800 672 7222
Fax 52-44 2227 3943
MSA International
Phone 412-967-3354
FAX 412-967-3451

Offices and representatives worldwide
For further information:



Advantage® Cartridge Style Respirators



Advantage 200 LS Respirator



Advantage 1000 Respirator



Advantage 420 Respirator



Advantage 3200 Twin-Port Respirator



Advantage 4200 Twin-Port Respirator



Advantage® Cartridge Style Respirators

MSA's Advantage Respirators provide optimal respiratory protection essential for workers in varied work environments including chemical, general industrial, pharmaceutical, first responders, construction, nuclear, craft trades, and even do-it-yourselfers. MSA's Advantage Respirators and the wide selection of Advantage Cartridges and Filters provide the protection you need, whether they are used for precautionary measures or in situations where hazardous gases, vapors, or particulates may be present.

Workers worldwide have come to depend on MSA's Advantage Respirators for their innovation, durability, and comfort. Incorporating MSA's global engineering expertise, the Advantage Family of Respirators meets NIOSH and other global standards while maintaining flexibility and affordability.

For your convenience, Advantage Cartridges and Filters are interchangeable with all Advantage Respirators, both half-mask and full-facepiece, simplifying the selection process. They are easy to maintain, allowing for minimal inventory and overall costs.

Advantage 200 LS Respirators offer economy, unmatched fit, and comfort with a soft blue facepiece. The Advantage 200 LS Respirator is approved by the National Institute for Occupational Safety and Health (NIOSH) for use against a variety of respiratory hazards.

- ➔ Thermoplastic rubber subtracts a quarter of the weight and adds softness.
- ➔ Patented **MultiFlex® System** equalizes face seal area pressure while delivering exceptional stability.
- ➔ **AnthroCurve™ Sealing Surface** instantly conforms to each wearer's unique facial characteristics.

Description	2-Piece Neckstrap	Single Neckstrap
Advantage 200 LS, small	815696	815448
Advantage 200 LS, medium	815692	815444
Advantage 200 LS, large	815700	815452



The **Advantage 420 Half-Mask Respirator** incorporates maximum comfort, improved donning and fit, enhanced safety, and reduced maintenance cost. **AnthroCurve II Sealing Surface** and multi-ethnic face seal improves fit testing among diverse workforces. Patent-pending **UniBond** silicone facepiece helps to eliminate possible leak paths. One-piece **Comfortop Cradle Headband** eliminates pressure points when head protection is worn. All plastic MSA Advantage Cartridges (bayonette) as well as metal **MSA Comfo® Cartridges** (threaded) can be used with Advantage 420 Respirators.

- ➔ Drop-down harness position allows respirator removal while retaining head protection
- ➔ Patent-pending lock-down harness position without further user adjustments
- ➔ Latex-free; reduces risk of adverse individual reaction
- ➔ Only three major components reduce inventory, parts cost, and maintenance time
- ➔ Choice of three sizes accommodates wide range of users
- ➔ Low breathing resistance enhances worker performance

Description	Small	Medium	Large
Advantage 420 Assembly (includes facepiece, head cradle, elastic straps, buckle set, yoke with lever, two (2) inhalation valves, one (1) exhalation valve)	10102182	10102183	10102184



Advantage 1000 Low-Maintenance Respirators offer reduced maintenance in a full-facepiece model. Clean, simplified design means fewer replacement parts. The Advantage 1000 Respirator weighs up to 40 percent less than some conventional full-face respirators for enhanced comfort and user acceptance. Advantage 1000 Respirators are compatible with the complete line of Advantage Series Filters and Cartridges.

- ➔ Super-soft Hycar™ Rubber facepiece offers excellent chemical permeation resistance
- ➔ Mechanical speaking diaphragm standard; facepiece also adapts to ESP Communications System
- ➔ Fully elastic, six-point head harness adjusts easily, speeds donning and doffing, and eliminates hair pulling
- ➔ Flexible urethane lens improves field of vision and provides greater comfort

Description	Small	Medium	Large
Advantage 1000 Respirator with speaking diaphragm and nose cup	805414	805408	805420



Advantage 3200 Twin-Port Respirators are designed for comfort and versatility; users can position upper straps for consistent fit and minimal adjustment. Pre-set upper straps prevent snags during donning and doffing, providing a tighter, more secure seal. Wearers may also choose the new European-style Advantage Head Harness, which dons like a catcher's mask. All components can be replaced without special tools in seconds.

- ➔ Choice of three sizes accommodates a wide range of users
- ➔ Approved with all MSA Advantage Cartridges
- ➔ Low breathing resistance enhances worker performance
- ➔ Wraparound scratch-resistant polycarbonate facepiece lens provides wide distortion-free field of vision
- ➔ Lens meets all ANSI Z87.1+ requirements including high-impact performance requirements

Description	Small	Medium	Large
Advantage 3200 Twin-Port Respirator, w/rubber Harness	10028996	10028995	10028997
Advantage 3200 Twin-Port Respirator, w/Advantage European-style harness	10031340	10031309	10031341



with rubber head harness as shown

The **Advantage 4200 Twin-Port Facepiece** is a dedicated twin-cartridge respirator. As with other Advantage Respirator facepieces, a unique in-turned lip provides the best possible face seal contours.

- ➔ Facepieces are available in silicone and Hycar Rubber
- ➔ Choice of rubber or net harnesses and three standard sizes for perfect fit
- ➔ Nosecup is standard for reduced fogging in low-temperature or high-moisture environments

Description	Small	Medium	Large
Advantage 4200 Twin-Port Respirator, w/net head harness, Hycar	10083785	10083781	10083789
Advantage 4200 Twin-Port Respirator, w/rubber head harness, Hycar	10083787	10083783	10083791
Advantage 4200 Twin-Port Respirator, w/net head harness, silicone	10083784	10083760	10083788
Advantage 4200 Twin-Port Respirator, w/rubber head harness, silicone	10083786	10083782	10083790



with net head harness as shown