

# Advantage<sup>®</sup> 200 LS and 3200 **Respirators**



## Advantage 200 LS Half-Mask Respirator

### Comfortable Fit and Balance

Mask can be adjusted to the wearer for a comfortable fit, helping to reduce potential pressure points throughout the day.

Swept back cartridge design helps to provide stability and weight distribution on the face.

### Lower Total Cost of Ownership

The Advantage 200LS keeps replacement, and maintenance costs down by only having 4 main components.

1. Facepiece blank
2. 4-point yoke
3. Inhalation/exhalation valves
4. Head harness



## Advantage 3200 Full-Facepiece Respirator

### Comfortable Fit and Balance

The Advantage 3200 design includes a nose cup, to help reduce fogging in low temps or high humidity, so that you are able to focus on the task at hand.

The wrap around scratch-resistant face piece lens provides wide field of vision while also meeting ANSI Z87.1 high-impact performance requirements.

### Reduce Respirator Downtime

All components of the Advantage 3200 can be replaced without special tools - for quick maintenance and limited downtime of your respirator.



WE KNOW WHAT'S AT STAKE.

## Advantage 200 LS and 3200 Respirators

Advantage Respirator Cartridges			Acid Gases															
The Advantage line of particulate, chemical and combination cartridges is NIOSH-certified to 42 CFR, Part 84 and provides lightweight, low-profile performance. Cartridges fit 200 LS and 420 Half-Mask, 1000, 3000 and 4000 Series Full-Facepiece Advantage Respirators.			Organic Vapor	Chlorine	Sulfur Dioxide	Chlorine Dioxide	Hydrogen Chloride	Hydrogen Sulfide	Ammonia	Methylamine	Formaldehyde	Hydrogen Fluoride	Mercury Vapor	Filter Type & Efficiency  See Definitions below				
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	
Organic Vapor (GMA)	815355																2,3	
Organic Vapor w/N95 Prefilter (GMA)	815355 w/815394 or 816357																2,3,5	
Organic Vapor w/R95 Prefilter (GMA)	815355 w/815397																2,3,5	
Organic Vapor/P100 (GMA)	815362																2,3,4	
Acid Gas (GMB)	815356																2	
Acid Gas w/N95 Prefilter (GMB)	815356 w/815394 or 816357																2,5	
Acid Gas w/R95 Prefilter (GMB)	815356 w/815397																2,5	
Acid Gas/P100 (GMB)	815363																2,4	
Organic Vapor/Acid Gas (GMC)	815357																2,3	
Organic Vapor/Acid Gas w/N95 Prefilter (GMC)	815357 w/815394 or 816357																2,3,5	
Organic Vapor/Acid Gas w/R95 Prefilter (GMC)	815357 w/815397																2,3,5	
Organic Vapor/Acid Gas/P100 (GMC)	815364																2,3,4	
Ammonia/Methylamine (GMD)	815358																2,3	
Ammonia/Methylamine w/N95 Prefilter (GMD)	815358 w/815394 or 816357																2,3,5	
Ammonia/Methylamine w/R95 Prefilter (GMD)	815358 w/815397																2,3,5	
Ammonia/Methylamine/P100 (GMD)	815365																2,3,4	
Multigas (GME)	815359																2,3	
Multigas w/N95 Prefilter (GME)	815359 w/815394 or 816357																2,3,5	
Multigas w/R95 Prefilter (GME)	815359 w/815397																2,3,5	
Multigas/P100 (GME)	815366																2,3,4	
Iodine Vapor/P100 (GMI)*	815641																2,4	
Chlorine/Mercury Vapor (Mersorb)	815361																2	
Chlorine/Mercury Vapor w/N95 Prefilter (Mersorb)	815361 w/815394 or 816357																2,5	
Chlorine/Mercury Vapor w/R95 Prefilter (Mersorb)	815361 w/815397																2,5	
Chlorine/Mercury Vapor/P100 (Mersorb)	815368																2,4	
Low-Profile P100	815369 Pack of 2 10123079 Pack of 100																1,4	
P100 with Splash Guard	10146939 Pack of 2																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  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:																
R95 Snap-On Prefilter and Cover	815397 Box of 20 815401 Reusable Snap-On Cover, 2 in a Package																	
Definitions																		
N95-Particulate Filter (95% filter efficiency level) effective against particulate aerosols free of oil; time use restrictions may apply.			Acrolein                      Hydrogen cyanide                      Nitric acid                      Phosphorus trichloride															
R95-Particulate Filter (95% filter efficiency level) effective against all particulate aerosols; time use restrictions may apply.			Aniline                      Hydrogen selenide                      Nitro compounds                      Stibine															
P100-Particulate Filter (99.97% filter efficiency level) effective against all particulate aerosols.			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.																		
5. Both a prefilter and cover must be used with the cartridge in order to obtain R95 or N95 particulate protection.																		

## Advantage 200 LS Half-Mask Respirator



- Cost-efficient
- Thermoplastic rubber is soft and lightweight
- Nosecup design provides stability and comfort

	Small	Medium	Large	
ADVANTAGE 200 LS FACEPIECES	815696	815692	815700	Advantage 200 LS Respirator, with <b>2-piece</b> neckstrap
	815448	815444	815452	Advantage 200 LS Respirator, with <b>single</b> neckstrap

## Advantage 3000 Series Full-Facepiece Respirators



Advantage 3200 Respirator with rubber harness and chemical cartridges



Advantage 3200 Facepiece with European-style harness



Advantage 3100 Facepiece with rubber harness

- Integrated nosecup helps to reduce lens fogging
- Scratch-resistant, optically correct wraparound lens enables wide field-of-vision
- Easy cleaning and decontamination

	Small	Medium	Large	
ADVANTAGE 3200 FACEPIECES <i>Twin-Port</i>	10028996	10028995	10028997	Advantage 3200 Facepiece, with <b>rubber</b> head harness
	10031340	10031309	10031341	Advantage 3200 Facepiece, with <b>European-style</b> harness
ADVANTAGE 3100 FACEPIECES <i>Single-Port</i>	10028999	10028998	10029000	Advantage 3100 Facepiece, with <b>rubber</b> head harness
	10031343	10031342	10031344	Advantage 3100 Facepiece, with <b>European-style</b> harness

3

## Flexi-Filter® Pads for Advantage Respirators

These low-profile, flexible pads fit well under a welding hood and with other personal protective equipment. They offer great balance and weight distribution.

Filter Type & Efficiency  
See **Definitions** on previous page

See **Notes** on p. 6

MSA Filter Description	Part No.	Color Coding	P100	P95	N95	Notes
Flexi-Filter/P100	818342					1,4
Flexi-Filter/P100 w/Nuisance Level OV, Ozone Removal	818343					1,4
Flexi-Filter/P100 w/Nuisance Level AG, HF Removal	818344					1,4
Flexi-Filter/N95	818346					1
Flexi-Filter/N95 w/Nuisance Level OV Removal	818347					1
Flexi-Filter/P95	818354					1
Flexi-Filter/P95 w/Nuisance Level OV Removal	818355					1




## MSA Respirator Fit Test Compliance

29 CFR Part 1910.134

MSA RESPIRATOR FIT TEST KITS	697287	Saccharin Qualitative Fit Test Kit
	697444	Bitrex Qualitative Fit Test Kit
	801628	Banana Oil Qualitative Fit Test Kit
	697285	Replacement (Saccharin) Sensitivity Test
	697445	Solution, Sensitivity, (Bitrex)
	697286	Replacement Fit-Test (Saccharin) Solution
	697446	Replacement Fit-Test (Bitrex) Solution
	697447	#1 Sensitivity Nebulizer
	697459	#2 Fit-Test Nebulizer
	697448	Test Hood (Same for Both)
	10056424	Advantage Fit Test Adapter for Quantitative Fit Testing
SPARE PARTS	815939	Replacement inhalation/exhalation valves (30 pack)
	815794	Single piece replacement head strap
	816671	Replacement yolk

To meet OSHA's respiratory protection fit-testing requirements, MSA offers facepiece-testing kits and accessories. As you may know, qualitative fit-test methods are subjective in nature and rely on the judgment of the test subject, and quantitative testing methods rely on objective data to determine a proper fit. Please consult with your Respirator Program Manager to ensure proper fit.

## Cleaning Supplies

	
PRODUCT NAME	MSA Confidence Plus®2 Germicidal Cleaner
DESCRIPTION	A multi-purpose, neutral pH, germicidal detergent and deodorant that disinfects, cleans and deodorizes in one labor-saving step. Reference product label For further information on product performance and specifications.  For COVID-19 cleaning guidance, please visit the following resource center: <a href="https://us.msasafety.com/coronavirus">https://us.msasafety.com/coronavirus</a>
PART NO.	10009971

	
PRODUCT NAME	Personal Safety Equipment Towelettes
DESCRIPTION	Provides an excellent method for wiping and refreshing respirators, hardhats, and other safety equipment between full cleaning periods.
PART NO.	<b>697383</b> Box of 100 individually wrapped towelettes (7-1/4" x 5") <b>697382</b> Canister with 220 towelettes (4-1/4" x 6") <b>10022871</b> "The Big Ones", box of 50 individually wrapped towelettes (8" x 11")

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice.

MSA operates in over 40 countries worldwide. To find an MSA office near you, please visit [MSAsafety.com/offices](https://us.msasafety.com/offices).

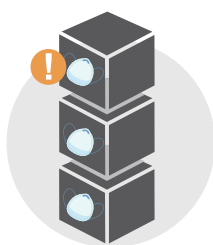




Photo courtesy of Allegheny Health Network

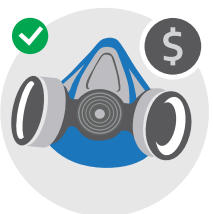
## What Are The Advantages of Reusable Elastomeric Respirators?

Healthcare workers have faced a severe shortage of disposable N95 respirators during the COVID-19 pandemic. Given these shortages, and in light of the Emergency Use Authorization by the FDA<sup>1</sup>, some are using reusable elastomeric respirators as a complement to their respiratory protection programs. *Here are a few key reasons why elastomerics make sense:*



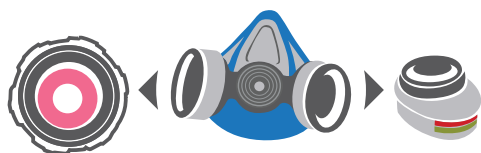
### REDUCTION OF STORAGE SPACE

Because elastomeric respirators are reusable, they may occupy a fraction of the storage space needed for stockpiling disposable N95 respirators.



### LOWER TOTAL COST OF OWNERSHIP

When all costs are considered, reusable elastomeric respirators are an economical solution for regular and surge use. Authors of a comparative cost analysis found reusable elastomeric half-face respirators to be less costly to stockpile than disposable masks.<sup>2</sup> The study concluded stockpiling an adequate amount of N95 respirators alone to distribute to all first responders is prohibitive in terms of both cost and volume, but stockpiling both disposable N95 respirators and reusable half-face respirators may be the best option.



### FLEXIBILITY IN PROTECTION

Elastomeric respirators offer further flexibility for use in other national emergencies ranging from natural disasters to national security threats or other novel public health emergencies. Filter cartridges are interchangeable, so you can fit the same respirator with filters appropriate to a wide array of hazards.

<sup>1</sup> United States Food and Drug Administration. <https://www.fda.gov/media/135763/download>

<sup>2</sup> Baracco, G., Eisert, S., Eagan, A., & Radonovich, L. 2015. Comparative Cost of Stockpiling Various Types of Respiratory Protective Devices to Protect the Health Care Workforce During an Influenza Pandemic. *Disaster Medicine and Public Health Preparedness*, 9(3), 313-318. doi:10.1017/dmp.2015.12

# Air-Purifying Respirators **for Healthcare**

## OptimAir® TL Powered Air-Purifying Respirator

MSA's NIOSH-approved powered air-purifying respirator (PAPR) with loose-fitting hoods and tight-fitting facepieces helps to protect against particulates, toxic gases and vapors, or a combination.

### Smart Features for Intuitive Use:

- The OptimAir TL's flow rate can adjust automatically for altitude, and cartridge type through built in smart sensors
- Both audible and visual alarms alert the user if there is a low flow, or low battery voltage

### Comfort:

- Low profile system reduces bulk for mobility in tight spaces
- Waist belt helps distribute weight evenly for worker comfort

### Versatility:

- Low-profile hood options reduce ear coverage area, allowing for the use of a stethoscope, while also maintaining eye and face protection.
- Full hood applications are also available for application where a higher assigned protection factor (APF), and full head, face and neck protection is required.



### NIOSH-APPROVED

A variety of hood materials, styles and configurations are **all** NIOSH-approved, including DuPont Tychem SL and QC with single and double bib. A choice of hose connection is also available. Unit has an APF of 1,000 (Assigned Protection Factor) for tight-fitting facepieces and full coverage single and double bib hoods. Low Profile Hoods have an APF of 25.



## Key components

- 1** Audible and visible low-flow alarm
- 2** Standard battery has a minimum run time of 4-hours regardless of cartridge being used
- 3** Audible and visible low-battery voltage alarm
- 4** Combination cartridge switch adjusts for proper air-flow requirements.
- 5** Blower, battery, and cartridges share common platform with no external cables required
- 6** Ergonomic housing design includes contoured blower housing for secure and comfortable fit against user's back



## Advantage® 200 LS and 3200 Respirators

### Advantage 200 LS Half-Mask Respirator

#### Comfortable Fit and Balance

Mask can be adjusted to the wearer for a comfortable fit, helping to reduce potential pressure points throughout the day.

Swept back cartridge design helps to provide stability and weight distribution on the face.

#### Lower Total Cost of Ownership

The Advantage 200LS keeps replacement, and maintenance costs down by only having 4 main components.

1. Facepiece blank
2. 4-point yoke
3. Inhalation/exhalation valves
4. Head harness



### Advantage 3200 Full-Facepiece Respirator

#### Comfortable Fit and Balance

The Advantage 3200 design includes a nose cup, to help reduce fogging in low temps or high humidity, so that you are able to focus on the task at hand.

The wrap around scratch-resistant face piece lens provides wide field of vision while also meeting ANSI Z87.1 high-impact performance requirements.

#### Reduce Respirator Downtime

All components of the Advantage 3200 can be replaced without special tools - for quick maintenance and limited downtime of your respirator.





## Advantage 290 Respirator with Source Control

### User Protection & Source Control—with all the Benefits of Elastomeric Respirators

The MSA Advantage 290 Elastomeric Half-Mask Respirator provides healthcare professionals with an innovative and secure respiratory solution. With the elimination of an exhalation valve, the Advantage 290 Elastomeric Respirator achieves source control by filtering exhaled breath to help reduce the likelihood of contaminating the surrounding area. It also enables user protection up to P100 level and is designed for easy cleaning and decontamination. For the healthcare industry, the MSA Advantage 290 Elastomeric Respirator offers a cost-effective and eco-friendly alternative over disposable filtering facepiece respirators.



## Advantage 420 Half-Mask Respirator

### Comfortable Fit and Balance

Mask can be adjusted to wearer for a comfortable fit, helping to reduce potential pressure points throughout the day. Adjustable crown strap adapts to different head sizes.

### Ease of Use

Patented yoke and harness design enables quick and easy switch between lock-down and drop-down modes. Drop-down mode allows users to remove the facepiece and rest it safely against the chest until respiratory protection is required again. Lock-down harness mode allows the user to lock in personal fit so that the respirator can be donned without further adjustments.



*Completely latex-free*



# Air-Purifying Respirators **for Healthcare**

## Elastomeric Facepiece Ordering Information


### Advantage 290 and 200LS Respirators

				<ul style="list-style-type: none"> <li>• Cost-efficient</li> <li>• Thermoplastic rubber is soft and lightweight</li> <li>• Nosecup design provides stability and comfort</li> </ul>
	Small	Medium	Large	
ADVANTAGE 200 LS FACEPIECES	815696	815692	815700	Advantage 290 Respirator with 2 piece neckstrap
	815448	815444	815452	Advantage 200 LS Respirator, with <b>single</b> neckstrap
	Small	Medium	Large	
ADVANTAGE 290 FACEPIECES	10217165	10217166	10217167	Advantage 290 Respirator with 2 piece neckstrap

### Advantage 3000 Series Full-Facepiece Respirators

 <p><i>Advantage 3200 Respirator with rubber harness and chemical cartridges</i></p> <p><i>Advantage 3200 Facepiece with European-style harness</i></p> <p><i>Advantage 3100 Facepiece with rubber harness</i></p>				<ul style="list-style-type: none"> <li>• Integrated nosecup helps to reduce lens fogging</li> <li>• Scratch-resistant, optically correct wraparound lens enables wide field-of-vision</li> <li>• Easy cleaning and decontamination</li> </ul>
	Small	Medium	Large	
ADVANTAGE 3200 FACEPIECES <i>Twin-Port</i>	10028996	10028995	10028997	Advantage 3200 Facepiece, with <b>rubber</b> head harness
	10031340	10031309	10031341	Advantage 3200 Facepiece, with <b>European-style</b> harness

### Advantage® 420 Half-Mask Respirator










				<ul style="list-style-type: none"> <li>• Facepiece design provides stability and soft feel</li> <li>• Facepiece design is optimized to fit a wide variety of face shapes and sizes</li> <li>• Easily switches between lock-down and drop-down mode</li> <li>• Built-in moisture release chin cup hole, and extra-wide head and neck straps</li> <li>• Designed for easy integration with other personal protective equipment such as safety glasses and welding shields</li> <li>• Faceblank is latex free</li> </ul>
	Small	Medium	Large	
ADVANTAGE 420 RESPIRATOR	10102182	10102183	10102184	Advantage 420 Assembly (includes facepiece, head cradle, elastic straps, buckle set, yoke with lever, two (2) inhalation valves, one (1) exhalation valve)

## Cartridges and Filters for Advantage Respirators

These low-profile, flexible pads fit well under a welding hood and with other personal protective equipment. They offer great balance and weight distribution.

Filter Type & Efficiency

See Notes Below

MSA Filter Description	Part No.	Color Coding	P100	P95	N95	Notes
Flexi-Filter/P100	818342					1,2
Flexi-Filter/P100 w/Nuisance Level OV, Ozone Removal	818343					1,2
Flexi-Filter/P100 w/Nuisance Level AG, HF Removal	818344					1,2
Flexi-Filter/N95	818346					1
Flexi-Filter/N95 w/Nuisance Level OV Removal	818347					1
Flexi-Filter/P95	818354					1
Flexi-Filter/P95 w/Nuisance Level OV Removal	818355					1
Low-Profile P100 (Pack of 2)	815369					1,2
P100 with Splash Guard (Pack of 2)	10146939					1,2

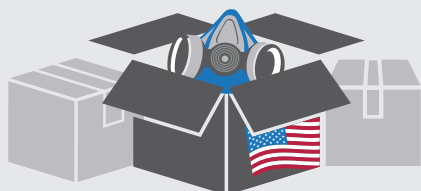


### Notes

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. 99.97 percent efficient against 0.3 micron DOP.



7



### DOMESTIC PRODUCTION AND SUPPLY CHAIN

MSA manufactures its NIOSH-approved respirators in the United States. Our supply chain focuses on US sourced materials whenever possible so that our supply continuity is managed to the best extent possible. MSA plants in Jacksonville, NC and Murrysville, PA employ over 500 workers in the production of top quality respiratory protection and PPE.

## OptimAir TL PAPR Ordering Information



### RESPONSE KITS (Include PAPR, Extended Life Battery, Charger, Breathing Tube, Hood and 2 Type HE cartridges)

10214805	Optimair TL Kit with Low Profile White Hood and Type HE Cartridges
10214891	Optimair TL Kit with Full Single Bib Hood and Type HE Cartridges

### STANDARD KITS (PAPR, Battery, Charger & Appropriate Breathing Tube)

10081117	Optimair TL Kit, for Hoods, Extended-Life battery
----------	---

### HOOD AND HOOD ACCESSORIES

10083329	Tychem QC Hood, single bib, threaded connector, w/susp. (4 pack)
10083330	Tychem QC Hood, double bib, threaded connector, w/susp. (4 pack)
10083381	Tychem SL Hood, single bib, threaded connector, w/susp. (4 pack)
10083382	Tychem SL Hood, double bib, threaded connector, w/susp. (4 pack)
10083383	Tychem QC Hood, single bib, standard, w/suspension (4 pack)
10083384	Tychem QC Hood, double bib, standard, w/suspension (4 pack)
10083385	Tychem SL Hood, single bib, standard, w/suspension (4 pack)
10083386	Tychem SL Hood, double bib, standard, w/suspension (4 pack)
10086926	Tychem QC Hood, single bib, threaded connector, yellow, (4 pack)
10086925	Tychem QC Hood, double bib, threaded connector, yellow, (4 pack)
10095739	Tychem QC Hood, single bib, threaded connection (20 pack)
10095740	Tychem QC Hood, single bib, standard connection, (20 pack)

### LOW PROFILE HOODS

10215118	HOOD, LOW PROFILE, WHITE, OPT TL, 4/PKG
10215120	HOOD, LOW PROFILE, WHITE, OPT TL, 20/PKG

*NOTE: Tychem QC is a general purpose hood material. Tychem SL hoods include taped seams and are designed for increased chemical resistance. Hood materials with similar performance may be substituted as required.*

### CARTRIDGES

10154877	Cartridge, HE, 54 Pack
10080455	Cartridge, HE (hi-efficiency), (6 pack)
10080454	Combination Cartridge (OV/AG/HE), (6 pack)
10080456	Combination Cartridge (AG/AM/FM/HE), (effective against OV), (6-pack)
10068152	Spark and water protective cover, cartridge (single unit) (2 required)

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice.



# MSA Respirator Fit Test **Compliance Reference**

29 CFR Part 1910.134



*Advantage® 200LS Respirator*



*Advantage 420 Respirator*



*Comfo® Classic Respirator*



*Comfo Elite Respirator*



*Advantage 3100 Respirator*



*Advantage 3200 Respirator*



*Advantage 4100 Respirator*



*Advantage 4200 Respirator*



*Advantage 1000 Respirator/  
Millennium® Respirator*



*Ultra-Twin® Respirator*



*Ultravue® Respirator*



*Ultra Elite® Respirator*

## Qualitative Fit Test Kits

P/N	Description
697287	Saccharin Qualitative Fit Test Kit
697444	Bitrex Qualitative Fit Test Kit
697285	Replacement (Saccharin) Sensitivity Test
697445	Solution, 55 ml bottle (Bitrex)
697286	Replacement Fit-Test (Saccharin) Solution, 55 ml bottle
697446	Replacement Fit-Test (Bitrex) Solution, 55 ml bottle
697447	#1 Sensitivity Nebulizer
697459	#2 Fit-Test Nebulizer
697448	Test Hood (Same for Both)
697325	"Using the Qualitative (Saccharin) Fit Test Kit" videotape
697449	"Using the Qualitative (Bitrex) Fit-Test videotape
801628	Banana Oil Qualitative Fit Test Kit
801629	Banana Oil Qualitative Fit Test Kit, in rugged Pelican case

*Because every life has a **purpose...***



Respirator Description	Class	Material	APF	OSHA Acceptable Fit Test Methods	Required Fit Factor Quantitative	MSA Fit Test Adapter Required	Cartridge Type	Probed Facepiece P/N (if applicable)	Controlled Negative Pressure (OHD) Quan Fit Test Adapter
Advantage 200 LS	Half-Mask Negative Pressure	TPR	10	Qualitative or Quantitative	100	Advantage Adapter #10056424	Bayonet or threaded with adapter #809999	S (816515), M (8165130, L (816517)	OHD P/N 9513-0210
Advantage 420	Half-Mask Negative Pressure	Silicone	10	Qualitative or Quantitative	100	Advantage Adapter #10056424	Bayonet or threaded w/adapter #809999	S (10107710), M (10107731), L (10107732)	OHD P/N 9513-0210
Comfo Classic	Full-Face Negative Pressure	Silicone	10	Qualitative or Quantitative	100	Quik Chek® II Adapter #812022	Threaded	S (808255), M (808249), L (808261)	OHD P/N 9513-0109
Comfo Elite	Full-Face Negative Pressure	Hycar™	10	Qualitative or Quantitative	100	Quik Chek II Adapter #812022	Threaded	S (808253), M (808247), L (808259)	OHD P/N 9513-0109
Comfo Elite	Full-Face Negative Pressure	Silicone	10	Qualitative or Quantitative	100	Quik Chek II Adapter #812022	Threaded	S (491862), M (491860), L (491864)	OHD P/N 9513-0109
Advantage 3100	Full-Face Negative Pressure	Silicone	50	Qualitative or Quantitative*	500	Quik Chek III Adapter #805078	N/A	N/A	OHD P/N 9513-0210
Advantage 3200	Full-Face Negative Pressure	Silicone	50	Qualitative or Quantitative*	500	Advantage Adapter #10056424	Bayonet or threaded w/adapter #809999	N/A	OHD P/N 9513-0210
Advantage 4100	Full-Face Negative Pressure	Hycar or Silicone	50	Qualitative or Quantitative*	500	Quik Chek III Adapter #805078	N/A	N/A	OHD P/N 9513-0217
Advantage 4200	Full-Face Negative Pressure	Hycar or Silicone	50	Qualitative or Quantitative*	500	Advantage Adapter #10056424	Bayonet threaded w/adapter #809999 @ NIOSH	N/A	OHD P/N 9513-0218
Advantage 1000	Full-Face Negative Pressure	Silicone	50	Qualitative or Quantitative*	500	Advantage Adapter #10056424	Bayonet	N/A	OHD P/N 9513-0219
Ultra-Twin	Full-Face Negative Pressure	Silicone	50	Qualitative or Quantitative*	500	Quik Chek II Adapter #812022	Threaded	S (482025), M (482024), L (482026)	OHD P/N 9513-0109
Ultra-Twin	Full-Face Negative Pressure	Hycar	50	Qualitative or Quantitative*	500	Quik Chek II Adapter #812022	Threaded	S (417683), M (465457), L (471684)	OHD P/N 9513-0109
Ultravue	Full-Face Negative Pressure	Silicone	50	Qualitative or Quantitative*	500	Quik Chek III Adapter #805078	N/A	S (482009), M (482008), L (482010)	OHD P/N 9513-0130
Ultravue	Full-Face Negative Pressure	Hycar	50	Qualitative or Quantitative*	500	Quik Chek III Adapter #805078	N/A	S (471681), M (465425), L (471682)	OHD P/N 9513-0130
Ultravue for use with ¼ turn quick disconnect	Full-Face Negative Pressure	Hycar or Silicone	50	Qualitative or Quantitative*	500	Quik Chek IV Adapter #817446	N/A	N/A	OHD P/N 9513-0130
Ultra-Elite	Full-Face Negative Pressure	Silicone	50	Qualitative or Quantitative*	500	Quik Chek III Adapter #805078	N/A	S (813211), M (813209), L (813213)	OHD P/N 9513-0210
Ultra-Elite	Full-Face Negative Pressure	Hycar	50	Qualitative or Quantitative*	500	Quik Chek III Adapter #805078	N/A	S (813210), M (813218), L (813212)	OHD P/N 9513-0210
Ultra-Elite for use with ¼ turn quick disconnect	Full-Face Negative Pressure	Hycar or Silicone	50	Qualitative or Quantitative*	500	Quik Chek IV Adapter #817446	N/A	N/A	OHD P/N 9513-0210
Millennium® Facepiece	Full-Face Negative Pressure	Hycar	50	Qualitative or Quantitative*	500 2000±	Quik Chek III Adapter #805078	Threaded	Probe Assembly (10006227)	OHD P/N 9513-0130
Ultra Elite Pressure-Demand	Full-Face Positive Pressure	Silicone	10,000 SCBA 1000 AIR-LINE	Qualitative or Quantitative	500†	APR Fit Test Adapter Kit, ¼ turn #10107257 (10029823 APR adapter only) APR Fit Test Adapter Kit, Slide Version #10107229 (10032511 APR adapter only) APR Fit Test Adapter Kit, Push-to-Connect #10107256 (10040052 APR adapter only) Quik Chek Adapter Kit, Firehawk #10044576‡	Bayonet	Negative Pressure S (813211), M (813209), L (813213)	OHD P/N 9513-0380
Ultra Elite Pressure-Demand	Full-Face Positive Pressure	Hycar	10,000 SCBA 1000 AIR-LINE	Qualitative or Quantitative	500†	APR Fit Test Adapter Kit, ¼ Turn #10107257 APR Fit Test Adapter Kit, Slide Version #10107229 APR Fit Test Adapter Kit, Push-to-Connect #10107256 Quik Chek Adapter Kit, Firehawk #10044576‡	Bayonet	Negative Pressure - S (813210), M (813218), L (813212)	OHD P/N 9513-0210
Ultra Elite Respirator	Full-Face Positive / Negative Pressure	Hycar	10,000 SCBA 50 APR	Qualitative or Quantitative	500† SCBA 2000± APR	Responder Fit Test Kit #10082555	Threaded	N/A	N/A

\* If only qualitative fit test is performed on a full-face negative pressure respirator, then an APF of only 10 can be assigned. If a quantitative fit test is performed, the APF is 50.

† For quantitative fit testing of pressure-demand facepiece, the facepiece must be tested in a negative pressure mode which requires a minimum fit factor of 500.

± MSA recommends a fit factor of 2000 if the application is a CBRN environment.

‡ The Quik-Chek Adapter allows quantitative fit tests to be performed on a pressure demand Ultra Elite Firehawk facepiece by only trained and qualified personnel. Special probed facepiece are not required.

**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.



**ID 5555-486-MC / October 2012**

© MSA 2012 Printed in U.S.A.

**Corporate Center**  
1000 Cranberry Woods Drive,  
Cranberry Township, PA 16066 USA  
Phone 724-776-8600  
**www.MSAafety.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 724-776-8626  
Toll Free 1-800-672-7777  
Fax 724-741-1559  
Email [msa.international@msafety.com](mailto:msa.international@msafety.com)

## Offices and representatives worldwide

For further information:

[www.MSAafety.com](http://www.MSAafety.com)