

Disposable Respirators

42 CR 84 Particulate Definition

N-Series: Not for oil. Approved for non-oil particulate contaminants

R-Series: Resistant to oil. Approved for all particulate contaminants. Time restriction of 8 hours when oil is present

P-Series: Oil Proof. Approved for all particulate contaminants. Manufacturer's time use restrictions apply.



3M

8210N95 Dust Mist Respirators

The most popular filter we sell for dust and mist. Foundries, battery manufacturers, textile, grain handling, paper mills, coal-fired utility plants and other industries where respiratory protection from dusts and mists is needed make this the half face respirator of choice for a variety of users. For a smaller version of the 8210N95 try the 8110. (The 8110 has not yet been determined for the 42CFR84 regulation.) Packed 20 each per box and 240 each per case. **Replaces the 8710.**

Item#	Description
8210	N-95 Dust/ Mist Respirator 20 Per Box
8110	Small Dust/ Mist Respirator 20 Per Box



3M

8511N95 Dust Mist Respirator with 3M Cool Flow™ Valve

The foam nose cushion makes this a more comfortable respirator to wear. The design reduces lens fogging for workers who must wear glasses, and it's collapse-resistant even in hot, humid conditions. Packed 20 each per box and 200 each per case. **Replaces the 8710, 8715 and 9900.**

Item#	Description
8511	N-95 Particulate Respirator 10 Per Box



Moldex 2200N95 Particulate Respirators with Dura-Mesh™ Shell



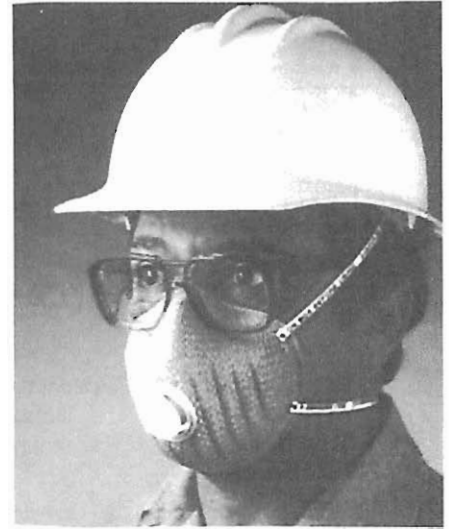
Collapse-resistant Dura-Mesh™ shell lasts longer so workers use fewer masks. Shaped for comfort with contour molded nose-bridge. Seals easily and comfortably without a metal nose-band. Packed 20 respirators each per box and 240 each per case.

Item#	Description
2200N95	Dust/ Mist Respirator

Moldex 2300 Dust/Mist Collapse Resistant



Can be used for most welding fumes. Exhale valve reduces hot-air build-up. Keeps workers cooler and more comfortable. Collapse-resistant Dura-Mesh™ shell lasts longer so workers use fewer masks. Flame-retardants added to help decrease flammability of shell. Shaped for comfort with contour molded nose-bridge. Seals easily and comfortably without nose band. Packed 10 respirators each per box and 100 each per case.



Item#	Description
2300N95	Dust/ Mist Collapse Resistant

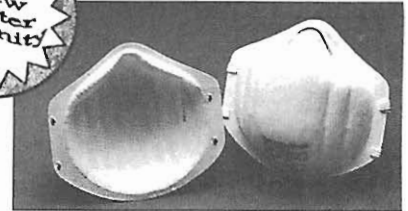
MSA Affinity Plus N95 Respirator

Redesigned for a new, softer feel! Standard features for the Plus Series are latex-free fixed head straps for quick and easy donning. It also has a patented contoured nose seal. To aid in nose area sealing, there is a pre-shaped metal nose band for easy contour adjustment.

816452	Affinity Pro, Small/Medium, 20/box
816521	Affinity Pro, Medium/Large, 20/box
816438	Affinity Pro with Exhaust Valve, S/M, 10/box
816525	Affinity Pro with Exhaust Valve, M/L, 10/box



Softer...Better Fit



Affinity® Plus Respirators

MSA Affinity Pro Respirator

Protection against particulates and oil-based aerosols. 95% efficient for non-oil "N" and oil-proof "P" filters available. 5 sizes. Patented AntroCurve seal plus foam inner liner for a consistent seal and greater comfort. Optional exhaust valve makes the respirator more comfortable. Option for either organic vapor or acid gas and hydrogen fluoride nuisance-level odor removal. N95 and P95.



Spectacle Kit for Full-Facepiece Respirators

For use by workers who must wear corrective lenses, the Spectacle Kit can be easily inserted into the facepiece. The kit includes a wire support, rubber guide and pair of metal-frame spectacles. Desired adjustment is obtained by moving the spectacles in and out of the rubber guide and up and down the wire support. One size of spectacle frame is used (S-7 shape, 44-mm lens size) with Universal Bridge Corrective Lenses that can be obtained from local sources. The Spectacle Kit can be used in conjunction with a nosecup. There are two kits for the Ultra Elite facepiece; one uses a side wire support to hold the lenses in the facepiece while the other uses a center support to position the unit (spectacle adjustments are similar).



Side Support Spectacle Kit for Ultra Elite Facepiece



Center Support Spectacle Kit for Ultra Elite



Spectacle Kit for Ultravue Facepiece



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Air-Purifying Respirators

MSA

Advantage® 200 Respirators

The Advantage 200 Respirator is unlike any other half-mask respirator you'll find. Offering unmatched fit and comfort, it's the first respirator to feature MSA's patented MultiFlex® System, a soft, pliable combination of rubber and plastic that provides a customized fit. The result is a respirator that feels great on any face, because it works to remove the pressure points from the face seal area. At the same time, the MultiFlex System delivers exceptional stability—which means the Advantage 200 Respirator won't collapse during wear.

The MultiFlex System also includes the AnthroCurve™ Sealing Surface which equalizes pressure on the face seal area, thereby eliminating unwelcome pressure points. This design also results in an effective sealing surface that instantly conforms to the wearer's unique facial characteristics.

In addition, the Advantage 200 cartridges are compatible with 42 CFR 84 NIOSH-approved Advantage 1000 respirators.



Advantage 200 Facepieces*

Description	Part No.
Advantage 200, small	815448
Advantage 200, medium	815444
Advantage 200, large	815452



Advantage 200 Facepieces, Pre-Assembled, with Chemical Cartridges and Filters

Description	Part No.
Advantage 200, small, with OV-N95 cartridge	816943
Advantage 200, medium, with OV-N95 cartridge	816939
Advantage 200, large, with OV-N95 cartridge	816947
Advantage 200, small, with Multigas R95 cartridge	816701
Advantage 200, medium, with Multigas R95 cartridge	816697
Advantage 200, large, with Multigas R95 cartridge	816705

Comfo® Cartridge† Adapter for Advantage 200 Respirators

Description	Part No.
Advantage Adapter, pkg of 2	809999

Advantage® 1000 Respirators

The Advantage 1000 Full-Face Respirator features a wrap-around flexible lens that offers a comfortable fit with increased vision. It weighs 40% less than conventional full-face respirators and uses the same cartridges as the Advantage 200 Respirator.

The Advantage 1000 Respirator is constructed of super-soft Hycar rubber that provides the feel and comfort of silicone but with better permeation resistance. For exceptional fit the facepiece is available in three sizes and has a unique inturred lip seal that provides the best possible seal against a wide range of facial contours. The Advantage 1000 facepiece also features a distinctive, flexible urethane lens that is integrally bonded to the facepiece, eliminating the need for rigid lens retainers that cause unwanted pressure points.

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

For more complete information, see Data Sheet 10-00-05.



Comfo® Cartridge† Adapter for Advantage 1000 Respirators

Description	Part No.
Advantage Adapter, pkg of 2	809999

Advantage 1000 Facepieces*

	Small	Medium	Large
Black, with speaking diaphragm and noseclip	805414	805408	805420

Advantage® Respirator Cartridges

MSA Cartridge Designation	Part No.	Acid Gases															Filter Type & Efficiency***	See Notes Below	
		OV	Cl.	SD	CD	HC	HS*	AM	MA	FM	HF	MV	P100	R95	N95				
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 (Mutugas)	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.

*** 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

- 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.
- Do not use in atmospheres containing less than 19.5 percent oxygen, or in atmospheres immediately dangerous to life and health.
- 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.
- 99.97 percent efficient against 0.3 micron DOP.

⚠ 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.

Acrrolein	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



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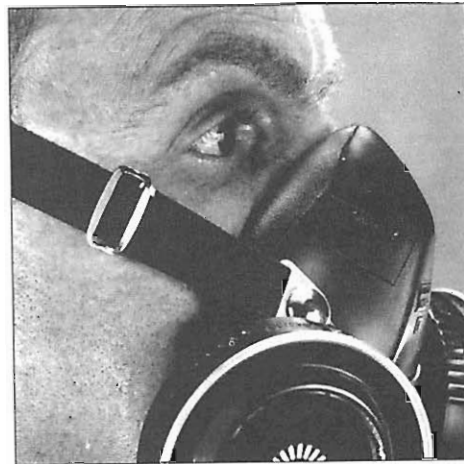
165

Comfo Classic® Respirators

The Comfo Classic Respirator is an improved version of the Comfo II Respirator, featuring new SoftFeel™ facepiece material, which increases the comfort factor dramatically. A result of extensive materials research by MSA, SoftFeel material is an exclusive new formulation that improves the pliability and softness of both Hycar rubber and silicone—the two facepiece materials available with Comfo Classic Respirators. Like earlier Comfo respirator models, the Comfo Classic Respirator features a unique face seal design that gives wearers an exceptional fit.

Comfo Classic Respirators

Material	Color	Small	Medium	Large
SoftFeel Hycar	Black	808075	808074	808076
SoftFeel Hycar	Green	808078	808077	808079
SoftFeel silicone	Black	808072	808071	808073



This Comfo Classic Respirator features a textured sealing surface of SoftFeel silicone which ensures a comfortable, secure fit.



Comfo Elite® Respirators

Comfo Elite Respirators

(less filters/cartridges)

Description	Part No.
Black silicone, small	490492
Black silicone, medium	490491
Black silicone, large	490493

Dustfoe® 88 Respirator

The Dustfoe 88 Respirator is a lightweight quarter-mask respirator with replaceable filters and double headbands for a secure fit. It provides breathing protection against non-oil-containing dusts and mists. The Dustfoe 88 Respirator's compact design allows it to be worn with eyeglasses without impairing downward or side vision. Exhalation and inhalation valves reduce heat and extend filter life. The respirator can be quickly disassembled for easy cleaning. NIOSH-certified.



Dustfoe 88 Respirator

Description	Part No.
Dustfoe 88 Respirator, shipped assembled less filter	10004179
Filters, pack of 5	818210
Filters, box of 50 (10 packs of 5)	10002835



WorkMask™ II and WorkMask™ MMR SCBA

The WorkMask II and WorkMask MMR Self-Contained Breathing Apparatuses (SCBA) are economical, lightweight and durable units designed for use in industrial environments that do not require compliance with NFPA-1981. The WorkMask II and WorkMask MMR SCBAs are not designed for firefighting.

An optional Dual-Purpose version combines the capabilities of an SCBA and an air-line respirator for greater versatility.



WorkMask MMR SCBA

Comfo® Respirator Cartridges

MSA Cartridge Designation	Part No.	Acid Gases													Filter Type & Efficiency***	See Notes Below			
		OV	CL	SD	CD	HC	HS*	AM	MA	FM	HF	MV	P100	R95			N95		
GMA (OV)	464031 (10 in pkg.)	■	☺														☺ with R95	☺ with N95	2,3
GMA (P100)	815178 (6 in pkg.)	■	☺														☺		2,3,4
GMA (P100) Short Stack	815186 (6 in pkg.)	■	☺														☺		2,3,4
GMB (AG)	464032 (10 in pkg.)	□		☺	☺	☺	☺	☺	☺								☺ with R95	☺ with N95	2
GMB (P100)	815179 (6 in pkg.)	■		☺	☺	☺	☺	☺	☺								☺		2,4
GMB (P100) Short Stack	815187 (6 in pkg.)	■		☺	☺	☺	☺	☺	☺								☺		2,4
GMC (OV/AG)	464046 (10 in pkg.)	■	☺	☺	☺	☺	☺	☺	☺								☺ with R95	☺ with N95	2,3
GMC (P100)	815180 (6 in pkg.)	■	☺	☺	☺	☺	☺	☺	☺								☺		2,3,4
GMC (P100) Short Stack	815188 (6 in pkg.)	■	☺	☺	☺	☺	☺	☺	☺								☺		2,3,4
GMD	464033 (10 in pkg.)	■							☺	☺							☺ with R95	☺ with N95	2,3
GMD (P100)	815181 (6 in pkg.)	■							☺	☺							☺		2,3,4
GMD (P100) Short Stack	815189 (6 in pkg.)	■							☺	☺							☺		2,3,4
GME (Multigas)	464790 (10 in pkg.)	■	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺				☺ with R95	☺ with N95	2,3
GME (P100)	815182 (6 in pkg.)	■	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺				☺		2,3,4
GMI (P100)**	815184 (6 in pkg.)	■	☺														☺		2,4
GMI (P100) Short Stack**	815192 (6 in pkg.)	■	☺														☺		2,4
Mersorb	466204 (10 in pkg.)	■		☺													☺ with R95	☺ with N95	2,4
Mersorb (P100)	815185 (6 in pkg.)	■		☺													☺		2,4
Mersorb (P100) Short Stack	815193 (6 in pkg.)	■		☺													☺		2,4
(P100)	815175 (10 in pkg.)	■															☺		1,4
Sparkfoe® (P100)	815176 (10 in pkg.)	■															☺		1,4
Low Profile (P100)	815177 (10 in pkg.)	■															☺		1,4
Stand-alone & cover	816662 N95 (10 in pkg.) 816661 N95 (50 in pkg.) 489353 Reusable snap-on cover (1 in pkg.; 2 req.)	■																	1
Prefilter & cover	816662 N95 (10 in pkg.) 816661 N95 (50 in pkg.) 489353 Reusable snap-on cover (1 in pkg.; 2 req.)	■																	1
Prefilter & cover	816287 R95 (20 in pkg.) 489219 R95 Reusable snap-on cover (1 in pkg.; 2 req.)	■															☺		1

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

- 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.
- Do not use in atmospheres containing less than 19.5 percent oxygen, or in atmospheres immediately dangerous to life and health.
- 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.
- 99.97 percent efficient against 0.3 micron DOP.

Ultra-Twin® Respirators

The Ultra-Twin Full-Facepiece Respirator has an intumed lip around the edge for a secure, comfortable seal against the face. A large chin cup makes it easy to position. Five suspension headstraps and roller buckles hold the facepiece in place while minimizing hair entanglement. The wide polycarbonate lens is coated to resist scratching and chemical attack. The lens is held in place by a two-piece lens ring which is color-coded to indicate the size of the facepiece. Uses the full line of Comfo Cartridges and Filters.

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.



Ultra-Twin Respirators

Material	Color	Individual Part No.			With ESP® Part No.			Bulk Part No. (12 per Carton)		
		Small	Medium	Large	Small	Medium	Large	Small	Medium	Large
Hycar	Black	471298	471286	471310	804170	804168	804172	806200	806199	806201
Silicone	Black	480263	480259	480267	804171	804169	804173	806203	806202	806204
Hycar	Green	471300	471287	471312	•	•	•	•	•	•
Silicone	Gray	804046	•	•	•	•	•	•	•	•
Silicone	Teal	•	804044	•	•	•	•	•	•	•
Silicone	Tan	•	•	804047	•	•	•	•	•	•
Silicone	Yellow	•	804045	•	•	•	•	•	•	•

Ultra Elite® Twin Cartridge Respirator

The demand version of the Ultra Elite Facepiece from MSA can be used as a twin-cartridge air-purifying respirator for full-face respiratory protection. The unique lens design provides a high level of peripheral and downward vision. It is available in three sizes and has large adjustment tabs for easy donning and doffing. A choice of two facepiece materials—SoftFeel Hycar rubber or silicone—enhance wearer comfort. For improved communication, there is a speaking diaphragm in front of the wearer's mouth so speech is not blocked. A nose cup reduces lens fogging in low temperatures or high-humidity conditions.

Ultra Elite Facepieces (less Twin Cartridge Adapter)

Material	Color	Small	Medium	Large
SoftFeel Hycar rubber	gray	810223	810151	810295
SoftFeel Hycar rubber	black	493064	493020	493108
SoftFeel silicone	gray	810231	810159	810303
SoftFeel silicone	black	493072	493028	493116

Note: Ultra Elite Facepieces must be fitted with a Twin-Cartridge Adapter to be used as a twin-cartridge respirator.

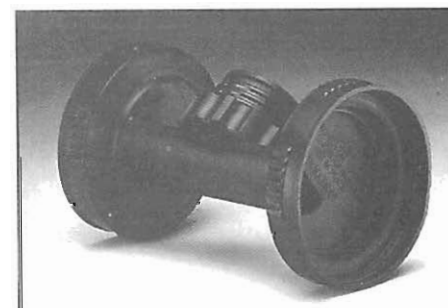
Twin-Cartridge Adapter

Converts demand Ultra Elite or Ultravue facepieces to twin-cartridge respirators.

Description	Part No.
Twin-Cartridge Adapter for Ultra Elite/Ultravue Facepieces	803622














Ultra Elite Facepiece with optional Twin-Cartridge Adapter
Converts any demand Ultravue or Ultra Elite Facepiece to a twin-cartridge respirator.








Air-Purifying Respirators

MSA

Which Half-Mask Respirator Is Right For You?

Respirator	Advantage® 200	Comfo Classic®	Comfo Elite®
			
Designed for Customers Who Prefer:	The fit and comfort of a traditional respirator, at a great price.	The fit, comfort and durability of a conventional half-mask respirator.	The fit, comfort and durability of a conventional half-mask respirator with a unique facepiece seal.
Fit	Excellent	Excellent	Excellent
Pricing	Low cost	Average	Above average
Why Buy?	Best value on the market	Proven comfort and fit	Best fit on the market
Face Seal Style	Combination flat & inturned lip 	Inturned lip (same as Comfo II) 	Flat (40% larger sealing area) 
Cartridges Used	Advantage Series, or Comfo Series with Adapter Kit 	Comfo Series 	
Yoke Material	Lightweight plastic 	Durable, yet lightweight metal color-coated  	
Faceblank Materials	Thermoplastic rubber (TPR) sealing surface with lightweight plastic support	Naturally slip-resistant SoftFeel® Hycar or silicone rubber with textured sealing surface	Silicone rubber with slip-resistant textured sealing surface

Which Full-Face Respirator Is Right For You?

Respirator	Advantage® 1000	Ultra-Twin® or Ultravue® with Twin-Cartridge Adapter	Ultra Elite® with Twin-Cartridge Adapter
		 (see page 17)	 (see page 17)
Designed for Customers Who:	Are more price-conscious and prefer the convenience of a durable yet low-maintenance respirator	Prefer a wide fitting standard (medium) size respirator with complementing small and large sizes—best when customer routinely does qualitative fit testing	Wish to achieve even better fits through the use of 3 more evenly sized facepieces—best when customer routinely does quantitative fit testing
Fit	Comfort and Fit Factors are maximized when all three respirators are used together in respirator program		
Pricing	Low cost	Average	Above Average
Cartridges Used	Advantage Series, or Comfo Series with Adapter Kit 	Comfo Series 	
Faceblank Materials	Super Soft Hycar	Hycar or Silicone	Super Soft Hycar or Super Soft Silicone
Nosecups	3 Sizes S-M-L	3 Sizes S-M-L	3 Sizes S-M-L
Vision	84% unimpeded	84% unimpeded	84% unimpeded
Spectacle Kit	Yes	Yes	Yes
ESP® Communication System	Yes	Yes	Yes



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Fax 816.753.0444

Chin-Type Gas Masks

The Chin-Type Gas Mask provides face and respiratory protection against particulate matter, vapors and gases by means of a lightweight, replaceable canister. The small, oval-shaped aluminum canister and face-piece are designed to permit downward head movement. This comfortable, lightweight model is often chosen as an alternative to the heavier models.

The MSA Chin-Type Gas Mask is designed for respiratory protection against a specific gas or group of gases as indicated by canister identification. The gas mask assembly has the following Maximum Use Conditions: Entry—100x the Permissible Exposure Level—do not exceed the Immediately Dangerous to Life or Health (IDLH) concentration. Escape—contaminant concentrations up to the maximum use concentration of the gas mask (generally, 5,000 ppm (0.5%) by volume; see canister selection chart for details), providing there is adequate oxygen (19.5 percent by volume) to support life. At these upper-use conditions, the service time may be extremely short (as low as 12 minutes).

A belt-mounted version of the Chin-Type Gas Mask is also available. This version allows the wearer to attach the canister to a belt clip. A corrugated breathing tube connects the canister to the facepiece.



Chin-Type Gas Mask

Chin-Type Gas Mask Complete Assemblies

Each assembly includes medium black Hycar Ultravue Facepiece.

Gas	Canister	Harness	Tube	Breathing Packaging	Part No.
Organic vapor	815994 GMA-N95	N/A	N/A	carton	817058
Organic vapor	815994 GMA-N95	N/A	N/A	carrying case	817057
Organic vapor/acid gas	817996 GMC-N95	N/A	N/A	carton	817060
Organic vapor/acid gas	817996 GMC-N95	N/A	N/A	carrying case	817059
Ammonia	815993 GMD-N95	N/A	N/A	carton	817064
Ammonia	815993 GMD-N95	N/A	N/A	carrying case	817063
Chlorine	815995 GML-N95	N/A	N/A	carton	817066
Chlorine	815995 GML-N95	N/A	N/A	carrying case	817065
Acid gas/formaldehyde/phosphine	816051	N/A	N/A	carton	817062
Acid gas/formaldehyde/phosphine	816051	N/A	N/A	carrying case	817061

Replacement Canisters for Chin-Type Gas Masks

MSA Canister Identification	Purifying Protection Code	Color Coding	Approval	Maximum Use Conditions	Part No.
GMA-C-N95	OV		TC-14G-0197	0.5% organic vapors*	815994
GMC-C-N95	OV/AG		TC-14G-0196	0.5% organic vapors and acid gases*	815996
GMF-C-N95	AG/FM/PH		TC-14G-0207	0.5% acid gases, or 0.5% formaldehyde, or 0.5% phosphine*	816051
GMD-C-N95	AM		TC-14G-0198	0.5% ammonia*	815993
GML-C-N95	CL ₂		TC-14G-0199	0.5% chlorine*	815995
GMDL-C-N95	OV/CL ₂ /AM		TC-14G-0200	0.5% ammonia, chlorine and organic vapors*	815999
GMR-I-P100	OV/I ₂		TC-14G-0204	0.5% organic vapors, also effective against organic iodides and iodide vapors†	815998
GMHF-C-P100	HF		TC-14G-0239	0.2% hydrogen fluoride, also effective against chlorine, acid gases and organic vapors†	816000

*Canister contains a N95-Particulate Filter (95% filter efficiency level) effective against particulate aerosols free of oil.

†Canister contains a P100-Particulate Filter (99.97% filter efficiency level) effective against all particulate aerosols.

Super-Size and Industrial-Size Gas Masks

The MSA Super-Size and Industrial-Size Gas Masks are designed for respiratory protection against a specific gas or group of gases, as indicated by canister identification. These MSA Gas Masks are designed for respiratory protection against a specific gas or group of gases as indicated by canister identification. The gas mask assembly has the following Maximum Use Condition: Entry—100x the Permissible Exposure Level—do not exceed the Immediately Dangerous to Life or Health (IDLH) concentration. Escape—contaminant concentrations up to the maximum use concentration of the gas mask (generally, 20,000 ppm (2%) by volume; see canister selection chart for details), providing there is adequate oxygen (19.5 percent by volume) to support life. At these upper use conditions, the service time may be extremely short (as low as 12 minutes).

As indicated by its name, the Super-Size Gas Mask has an extra-large canister which will last approximately twice as long as the equivalent Industrial-Size Canister because of a larger volume of chemical fill.



Super Size Gas Mask Complete Assemblies

Each assembly includes a medium black Hycar Ultravue Facepiece, breathing tube assembly, and harness assembly. A universal harness, designed to fit both industrial and super-size canisters, is standard on gas mask assemblies and as a replacement part (Part No. 84937).

Description	Packaging	Part No.
Phosphine, hydrogen sulfide organic vapors, chlorine; front-mounted; with two 816009 GMHS-SSW-N95 canisters	carrying case	817077
Ethylene oxide Gas Mask; front-mounted; with two 816010 GMEO-SSW canisters	carrying case	817078

Industrial Size Gas Mask Complete Assemblies

Each assembly includes medium black Hycar Ultravue Facepiece.

Gas	Type	Canister	Harness	Breathing Tube	Packaging	Part No.
Organic vapor	Industrial size	816001 GMA-N95; front-mounted	yes	yes	carrying case	817071
Ammonia	Industrial size	448967 GMD-N95; front-mounted	yes	yes	carrying case	817072
Chlorine	Industrial size	816003 GML-N95; front-mounted	yes	yes	carrying case	817073

Replacement Canisters for Super Size and Industrial Gas Masks

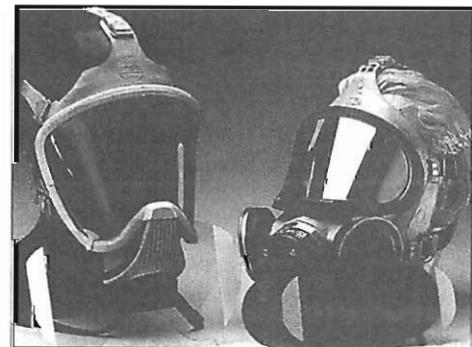
MSA Canister Identification	Purifying Protection Code	Color Coding	Approval	Maximum Use Conditions	Part No.
GMA-N95	OV	Black	TC-14G-0203	2% organic vapors*	816001
GMD-N95	AM	Green	TC-14G-0201	2% ammonia*	816002
GML-N95	CL	White	TC-14G-0205	2% chlorine*	816003
GMHS-SSW-N95	OV/PH/CD/CL/HS	Olive	TC-14G-0195	0.05% chlorine dioxide; 0.15% phosphine; 2% organic vapors or chlorine; 1% hydrogen sulfide*	816009
GMEO-SSW-N95	EO	Olive	TC-14G-0202	0.5% ethylene oxide* Window-Cator® canister has end-of-service indicator	816010

*Canister contains a N95-Particulate Filter (95% filter efficiency level) effective against particulate aerosols free of oil.

Cover Lens

Protects the facepiece lens from scratches during storage, handling and in use.

Description	Facepiece	Part No.
Clear cover lens, pkg of 25	Ultra Elite	491500
Smoke-tinted cover lens, pkg of 25	Ultra Elite	805456
Smoke-tinted cover lens, pkg of 6	Ultravue	494254
Smoke-tinted cover lens, pkg of 25	Ultravue	480326
Mirror-reflective cover lens, pkg of 6	Ultravue	494255
Yellow-tinted cover lens, pkg of 6	Ultravue	494256
Clear cover lens, pkg of 25	Ultravue	456975



Airstream Powered Air-Purifying Helmet



The AH-Series has been replaced with the AS-series battery-powered, air-purifying respirator. The older models can be upgraded with a kit (AS-112) to comply with the NIOSH 42 CFR 84 standard.

ALL SYSTEMS FEATURE:

- Increased worker mobility
- Can use glasses or goggles
- Beard, mustache, sideburns and long hair does not affect performance
- Completely portable
- Lightweight construction
- Unrestricted vision
- Adjustment for majority of head sizes
- Easy cleaning and maintenance
- Positive pressure behind faceshield
- Pleasant flow of purified air

SPECIFICATIONS:

Airflow Range: 6 to 15 scfm (170 to 425 lpm)

Weight: Headgear Assembly approx. 2.2 lbs.

Battery Pack approx. 1.2 lbs.

Battery Life: Up to 8 hours with full charge

(II-G battery #520-01-02)

Up to 4 hours with full charge

(Standard battery #520-01-18)

Eye and Face Protection:

522-01-01 and 522-01-04 visor meet test requirements of ANZI Z87.1-1989 and will help reduce the irritating effects of particles striking the face or entering the eyes.

NOT considered eye protection

Head Protection:

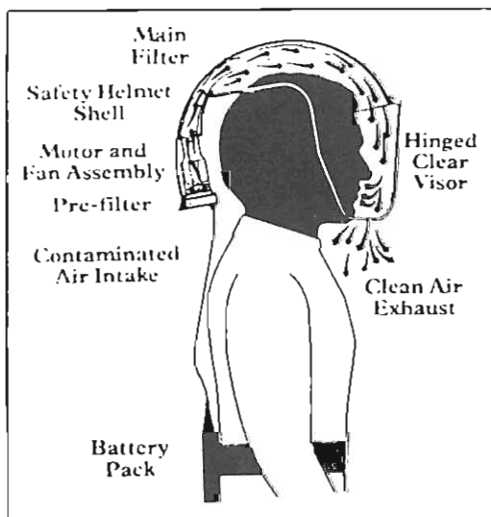
Type I, Class E Helmet for ANZI Z89.1-1997 for head protection

Intrinsic Safety:

Not Rated AS200

Rated by UL AS400 = Class I, Group D; Class II, Group E,F, and G; Class III

Rated by USDOL and MSHA AS600 = Class I, Group D; Class II, Group E,F, and G, Class III



Basic Operating Principles of the Airstream Helmet.

Airstream Helmet Systems*

AS200LBC Standard System

AS400LBC Intrinsically Safe (II-G) System

AS600LBC Miner's Intrinsically Safe System

*Order Battery Charger Separately

Replacement Parts

<u>Dwg #</u>	<u>Description</u>	<u>Part Number</u>
-	Upgrade Kit	AS-112
-	Headgear Shell Assembly w/ Visor Surround Includes: #1,5,6,7,8,12,13,14,15 and Faceseal	520-01-86R01
1	Headgear Shell, White	060-46-34R01
5	Comfort Band (10/pkg)	060-39-01R10
6	Cradle Assembly	060-32-04R01
7	Headband	060-38-05R01
8	Headseal	060-28-03R01
12	Pivot and Cams, pair	061-37-00R02
13	Temple Seal (10/pkg)	060-49-02R10
14	Visor (10/pkg)	522-01-01R10
14	Visor, Hardcoated	522-01-04R01
14	Visor, Scratch-Resistant, (10/pkg) CEN approved, not ANSI approved	060-75-01R10
14	Visor, Gray Tinted (10/pkg) CEN approved not ANSI approved	060-75-02R10
14A	Protective Visor Overlay (10/pkg)	529-02-37R10
15	Visor Surround Assembly (AS200 and AS400 only)	060-10-00R01
15	Visor Surround Assembly with Lamp Bracket and Hinge (AS600 only)	520-02-24
17	Mining Lamp Bracket and Hinge (AS600 only)	520-01-62R01
-	Chinstrap	529-01-09R01
-	Faceseal, Tyvek (10/pkg)	527-01-15R10

Motor Housing Assembly Replacement Parts

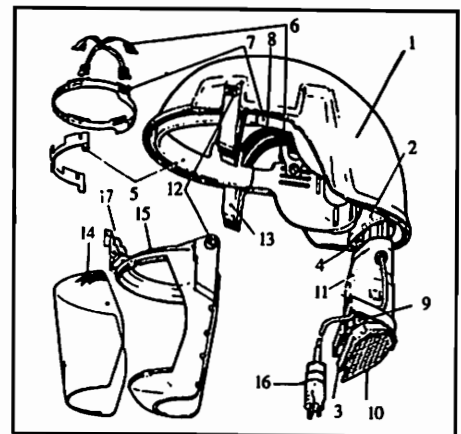
11	Motor Housing Assembly	060-04-03R01
16	Cable Assembly and Plug	060-44-06R01
-	Airflow Indicator	061-44-01R01
-	Clip (AS600 Battery Cord)	529-01-59R01

Filter Media

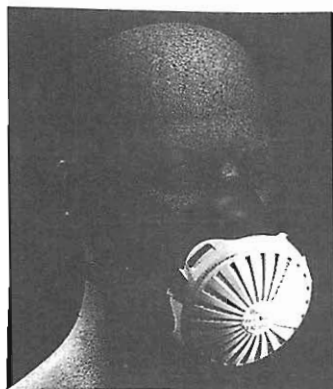
<u>Dwg #</u>	<u>Description</u>	<u>Part No</u>
2	High Efficiency Filter (5/pkg)	AS140-5
2	High Efficiency Filter (25/pkg)	AS140-25
3	Prefilter (10/pkg)	AS-120-10
4	Filter Holder (2/pkg)	AS-110-2
9	Prefilter Inner Grill	060-19-00R01
10	Prefilter Outer Grill	060-20-00R01

Battery Packs / Chargers and Accessories

Battery Cover, Water Repellent	529-01-56R01
Battery Pack, Std (AS200 only)	520-01-18R01
Battery Pack, II-G (AS400 and AS600)	520-01-02R01
Clothing Clip and and Screw for Battery	520-01-82
Charging Station Single Unit	520-03-73
Charging Station Five Unit	520-03-72
Charging Station Ten Unit	520-01-61



Respirators, Fit Testing, and Cleaning Equipment



PICCO 20 Half Mask Respirators
Combines the advantage of conventional half masks and disposable respirators. More economical than single-use respirators. Simple to clean.

R53665 Half Mask with 5 P100 filters
6736777 P100 Filter, 25/pkg.

MSA Cleaner-Disinfectant Liquid

Mix 2 1/2-ounces with a gallon of warm water (not to exceed 120° F) for a cleaner-disinfectant that is effective against bacteria and odors. Mixes readily in water and has a pleasant mint odor. Plastic container has a built-in measure. Registered with EPA.



<i>Description</i>	<i>Part No.</i>
32 oz. bottle	697284

PANORAMA Full Face Mask

Double-seal frame with anti-fogging Visor. Universal size. Can convert from air purifying to supplied air respirator with special connector. Panorama Standard uses a plastic lens frame while the Nova uses a metal frame.



R52999 EPDM Standard Mask
R51525 EPDM Nova Mask
R51535 Silicone Nova Mask
6737500 Ammonia P100 Cartridge
6737360 Phosphine P100 Cartridge
4055092 Lens Overlay, 25/pkg.
R51019 Plastic Storage Case

Personal Safety Equipment Towelettes

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



<i>Description</i>	<i>Part No.</i>
Canister with 220 towelettes	697382
Box of 100 individually wrapped towelettes	697383

FUTURA Full Face Mask

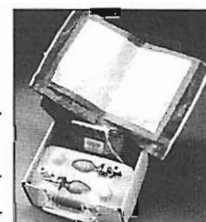
Large lens provides excellent field of vision.



R53590 EPDM Mask
R53170 Silicone Mask

Bitrex Qualitative Fit Test Kit

<i>Description</i>	<i>Part No.</i>
Bitrex QLFT Kit	697444
Replacement Fit-Test Solution, 55 ml bottle	697446
Sensitivity Solution	697447
Replacement Hood	697448
"Using the Qualitative Fit Test Kit" videotape	697449



Qualitative Test Kit

Saccharin Qualitative Fit Test Kit

The Saccharin Qualitative Fit Test Kit eliminates the need for special filters and is especially useful for dust/mist respirators.

<i>Description</i>	<i>Part No.</i>
Saccharin QLFT Kit	697287
Replacement Sensitivity Test Solution, 55 ml bottle	697285
Replacement Fit-Test Solution, 55 ml bottle	697286
Replacement Hood	697448
"Using the Qualitative Fit Test Kit" videotape	697325



Replacement Hood and Test Solutions

PROAIR SCBA

High performance SCBA for industrial use. Customized to meet your needs. Available as low or high pressure and wide selection of cylinders from 30 minutes to 60 minute duration

