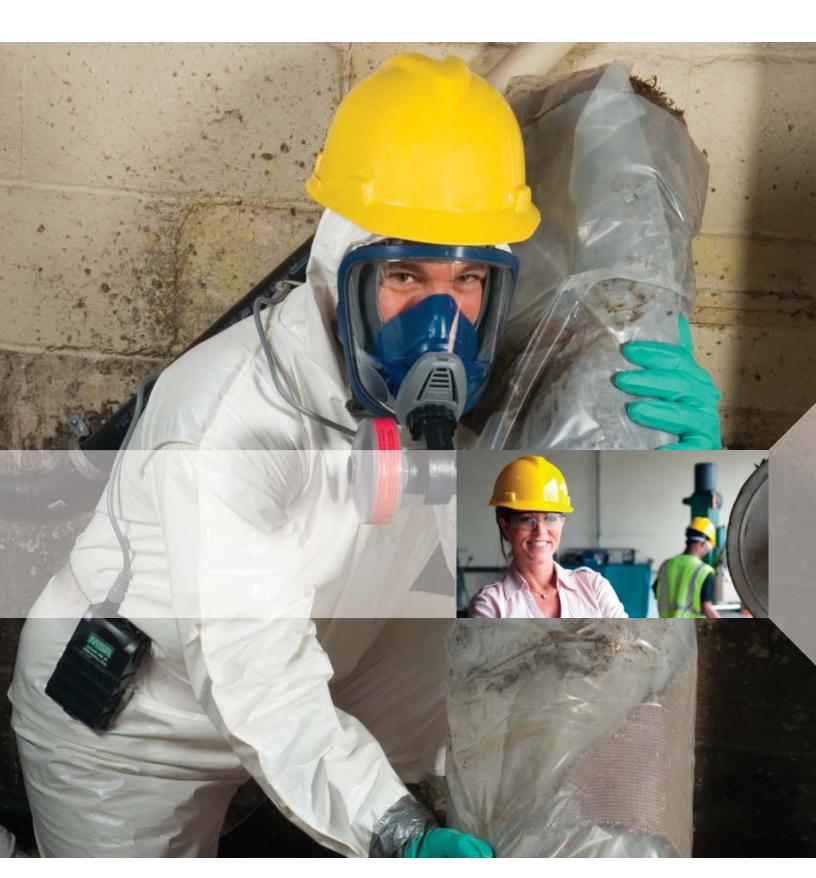
MSA Mold Remediation Products





Half-Mask Respirators

Facepiece is formulated of thermoplastic rubber for noticeable softness and light weight.

- Unique AnthroCurve™ Sealing Surface instantly conforms to each wearer's unique facial characteristics.
- Patented MultiFlex® System equalizes face-seal area pressure for exceptional stability.

Advantage 200 LS Respirator

Ordering Information

Advantage 200 LS Respirators				
Description	2-Piece Neckstrap			
Advantage 200 LS Respirator, small	815696			
Advantage 200 LS Respirator, medium	815692			
Advantage 200 LS Respirator, large	815700			
Cartridges and Filters				
Description	P/N			
P100 cartridge, 1 pair	815369			
P100 Flexi-Filter® Pad with nuisance level OV removal, 1 pair	818343			
GME-P100 combination cartridge, 1 pair	815452			



Left to right: P100 cartridge, P100 Flexi-Filter Pad with nuisance level OV removal, GME-P100 combination cartridge, Advantage 200 LS Respirator

Full-Face Respirators

Advantage 3000 Full-Face Respirator uses the same cartridges and filters as the Advantage 200LS Respirator. Soft, pliable silicone facepiece enhances worker performance via lower breathing resistance. Meets NIOSH and EN standards; lens exceeds ANSI Z87.1 performance requirements.

- Standard nosecup reduces fogging.
- Wraparound polycarbonate lens with scratch-resistant coating for superior visibility and peripheral vision.
- Easy donning and tight, secure seal with pre-adjustable straps.
- European-style Advantage Harness dons like a catcher's mask.

Cartridges and Filters

P100 or HE high-efficiency filter (99.97% efficient against 0.3 micron particulates) exceeds EPA recommended minimum filter efficiency (95%) to minimize exposure to mold spores.

P100 Flexi-Filter Pad with nuisance level OV removal high-efficiency filter (99.97% efficient against 0.3 micron particulates) removes organic vapors that fall below the Permissible Exposure Limit. Filter exceeds EPA recommended minimum filter efficiency (95%) to minimize exposure to mold spores.

GME-P100 combination cartridge with NIOSH approvals is for use against organic vapors, acid gases, ammonia, methylamines, formaldehyde, hydrogen fluoride, and P100 (99.97% efficient against 0.3 micron particulates). Cartridge is effective against chemicals found in most cleaning agents and exceeds EPA recommended minimum filter efficiency (95%) to minimize exposure to mold spores.



Left to right: P100 cartridge, P100 Flexi-Filter Pad with nuisance level OV protection, GME-P100 combination cartridge, Advantage 3000 Twin-Cartridge Respirator

Advantage 3000 Respirator

Ordering Information

Advantage 3000 Respirators						
Description	Small	Medium	Large			
Advantage 3200 Twin-Port Respirator, w/rubber harness	10028996	10028995	10028997			
Advantage 3200 Twin-Port Respirator, w/Advantage Harness	10031340	10031309	10031341			

Cartridges and Filters

Description	P/N
P100 cartridge, 1 pair	815369
P100 Flexi-Filter Pad with nuisance level OV removal, 1 pair	818343
GME-P100 combination cartridge, 1 pair	815452



Powered Air-Purifying Respirators

OptimAir® 6A PAPR with OptiFilter® Cartridges

OptimAir 6A PAPR provides respiratory protection by filtering contaminants from ambient air, with constant flow to the facepiece. Unit is used with a family of filters and chemical cartridges for protection against particulates, toxic gases and vapors or a combination of these hazards. Suitable for mold remediation, hazardous materials cleanup, asbestos and lead paint abatement, chemical processing, foundry, smelter and coke oven applications, and nuclear facilities work.

- $\cdot\,$ Optim Air 6A PAPR includes motor/ blower module and rechargeable NiCad battery.
- · Operates for a full shift using only two filters.



Ordering Information

OptimAir 6A PAPR with Ultravue® Facepiece						
Assembly includes motor/blower module,	Assembly includes motor/blower module, NiCad battery, facepiece, breathing tube, belt, battery charger.					
Facepiece	Si	ze	P,	/N		
Black Hycar™ Rubber Ultravue Facepiece	med	lium	494	236		
OptiFilter (Cartridges for C	ptimAir 6A PAP	R			
MSA Purifying Element	Purifying Protection Code	Color Coding	No. in Box	P/N		
OptiFilter XL Cartridge, Type HE	HE		20	10042346		
OptiFilter XL Cartridge, Type HE	HE		6	496081		
OptiFilter Cartridge GMC-H	OV/AG/HE		6	494217		

OptimAir® MM 2K PAPR

OptimAir MM2K PAPR for mold remediation and abatement filters particulates from ambient air and provides constant respirable air flow to Advantage 3000, Ultravue or Ultra Elite® Facepieces. Mask-mounted, low-profile motor/blower with HEPA filter enhances user maneuverability and simplifies decontamination. Unit includes small, lightweight, water-resistant nickel metal hydride (NiMH) battery pack for eight hours of continuous use.

- Battery pack weighs only 12.5 oz., measures only 3"x 5"x 1".
- Sealed battery pack is water-resistant for easy shower decontamination.
- NiMH batteries do not have memory effect associated with NiCad batteries.
- Standard dual-rate battery charger recharges fully-discharged battery in less than three hours.







OptimAir Mask-Mounted PAPR

PAPR Kits for for mold remediation/abatement, asbestos and nuclear applications includes motor/blower, NiMH battery, dual-rate charger, one Type HE OptiFilter XL Cartridge, PVC decon belt, and choice of facepiece. **OptimAir MM2K PAPR offers full two-year warranty.**

- Polycarbonate/polyester construction and stainless steel connectors for extreme durability
- Light and small eight-hour battery packs recharge in dual-rate chargers
- · NIOSH-approved





Ordering Information

Complete OptimAir Mask-Mounted and MM2K PAPR Assemblies (with facepiece)

All assemblies include:

- Motor/blower
- NiMH battery
- Dual-rate battery charger and cable
- One Type HE OptiFilter XL Cartridge
- Waist belt
- Choice of facepiece

OPTIMAIR MASK-MOUNTED PAPR					
	Head Harness	Small	Medium	Large	
ADVANTAGE 3100	With rubber head harness	10095181	10095182	10095183	
PAPR	With Advantage Head Harness	10095184	10095185	10095186	
	Material	Small	Medium	Large	
ADVANTAGE 4100	Black silicone with rubber harness	10095193	10095189	10095197	
PAPR	Black Hycar Rubber with rubber harness	10095194	10095190	10095198	
	Black silicone with net harness	10095191	10095187	10095195	
	Black Hycar Rubber with net harness	10095192	10095188	10095196	
	OPTIMAIR MM2K PAP				
	Head Harness	Small	Medium	Large	
ADVANTAGE 3100	With rubber head harness	10034152	10034150	10034151	
PAPR	With Advantage Head Harness	10034155	10034153	10034154	
	Material	Small	Medium	Large	
ADVANTAGE 4100	Black silicone with rubber harness	10084547	10084543	10084551	
PAPR	Black Hycar Rubber with rubber harness	10084548	10084544	10084552	
	Black silicone with net harness	10084545	10084541	10084549	
	Black Hycar Rubber with net harness	10084546	10084542	10084550	

OptimAir Mask-Mounted and MM2K PAPR Kit (less facepiece) and Replacement Facepieces

Upgrade Kit includes:

- Motor/blower
- NiMH battery, dual-rate battery charger and cable
- One Type HE OptiFilter Cartridge
- Waist belt
- Use your present facepiece or order facepiece separately from ordering chart

	Description	P/N		
KITS	OptimAir Mask-Mounted PAPR Upgrade I	Kit		10095166
	OptimAir MM2K PAPR Upgrade Kit			10025945
	Facepiece	Large		
REPLACEMENT FACEPIECES	Black silicone with rubber harness	10095193	10095189	10095197
ADVANTAGE 3100	Black Hycar Rubber with rubber harness	10095194	10095190	10095198
	Material	Small	Medium	Large
REPLACEMENT FACEPIECES	Black silicone with net head harness	10083796	10083792	10083800
ADVANTAGE 4100*	Black Hycar Rubber with net head harness	10083797	10083793	10083801
	Material	Small	Medium	Large
REPLACEMENT FACEPIECES	Silicone rubber head harness	493072	493028	493116
ULTRA ELITE	Hycar Rubber head harness	493064	793020	493108

OptiFilter Cartridges for OptimAir Mask-Mounted and MM2K PAPR

MSA Purifying Element	Purifying Protection Code	Color Code	No. in Box	P/N
OptiFilter XL, Type HE	HE		20	10042346
OptiFilter XL, Type HE	HE		6	496081

^{*}Also requires RD40 Adapter P/N 10065330

Above-the-Neck Safety Solutions

V-Gard® Protective Caps and Hats

Classification: Type I

Application: General purpose **Shell Material:** Polyethylene

Available Styles: Slotted Cap; Slotted Full-Brim Hat

Sizes: Cap: Small (6 - 7%''); Standard (6% - 8''); Large (7 - 8%'')

Hat: Standard (6½ − 8");

Standards: ANSI/ISEA Z89.1-2009 (Class E); CSA Z94.1-2005 (Class E)

Certification: Third-party by SEI

Customization: Imprinting and striping available

NOTE: Small and Large V-Gard Caps are NOT CSA-certified. Standard-size V-Gard Caps and Hats are CSA-certified when assembled with MSA's Fas-Trac® or 1-Touch® Suspension ONLY.

Description	P/N
Standard V-Gard Slotted Cap with Fas-Trac Suspension, white	475358
Standard V-Gard Slotted Cap with Fas-Trac Suspension, yellow	475360
Standard V-Gard Slotted Hat with Fas-Trac Suspension, white	475369
Standard V-Gard Slotted Hat with Fas-Trac Suspension, yellow	475366



left/RIGHT® Passive Helmet-Mounted Ear Muffs

MSA left/RIGHT Ear Muffs have dedicated right and left ear cups that are designed to fit ears of all shapes and sizes to offer increased comfort and protection.

Precise fit provides maximum loud noise protection using minimal cup size

Available in low, medium and high attenuation

Sound Control® SH for Slotted Full-Brim Hard Hats

- Spring design offers low pressure and a high level of comfort
- Three distinct wearing positions for ease of use
- Excellent grip makes it easy to adjust the cups, even when wearing gloves
- Provides maximum space for the ears inside the cup
- Soft ear cup material for extended wear
- Easy ear cup height adjustment
- Retain the Class E dielectric rating on the Slotted V-Gard Full-Brim Hard Hat



	P/N	Description
LEFT/RIGHT PASSIVE	10087439	LOW, white (NRR 21)
HELMET-MOUNTED EAR MUFFS	10087429	MEDIUM, blue (NRR 25)
	10087422	HIGH, yellow (NRR 28)
SOUND CONTROL SH FOR SLOTTED FULL-BRIM HARD HATS	10129327	Sound Control SH for slotted hats (NRR 25)



V-Gard Accessory System: V-Gard Frames for Caps (Standard Purpose)

The V-Gard Accessory System offers helmet-mounted frames for various work conditions and MSA helmets. The sloped design allows liquids, chips and other materials to slide off the frame and away from the line of sight. Each frame, whether used with or without debris control, meets the applicable requirements for ANSI/ISEA Z87.1-2010, EN 166, CSA Z94.3, AS/NZS 1337 and many local standards.¹

Classification: Standard

Market(s): General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding,

metalworking, automotive, mining

Application(s): Chipping, splash, chiseling, drilling, grinding, machining, power fastening, sanding, sawing

Material: High density polyethylene (HDPE)

Color(s): Black

Available Styles: Frame for Slotted Caps

Universal Frame for Caps

Size: Fits MSA Safety Caps

Features: Offered with or without debris control

Standards¹: ANSI/ISEA Z87.1-2010; EN 166; CSA Z94.3; and AS/NZS 1337

Certification: Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.

	Description	P/N	Features
V-GARD FRAMES FOR STANDARD PURPOSES	V-Gard Frame for MSA slotted caps, with debris control	10115730	Fits all MSA Slotted Caps Sold with replaceable debris control to create tight seal between frame and cap Stowable slot adaptors secure frame tightly in slotted MSA caps, and allow frame to work with or without earmuffs Sliding adjustment blades allow visor to work with most half-mask respirators and other PPE worn under a visor

V-Gard Accessory System: V-Gard Frames for Full-Brim Helmets

Classification: Standard

Market(s): General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding,

metalworking, automotive, mining

Application(s): Chipping, splash, chiseling, drilling, grinding, machining, power fastening, sanding, sawing

Material: High density polyethylene (HDPE)

Color(s): Black

Available Styles: Universal Frame

Size: Fits MSA Full-Brim Safety Helmets

Features: Offered without debris control ONLY

Standards¹: ANSI/ISEA Z87.1-2010; EN 166; CSA Z94.3; and AS/NZS 1337

Certification: Third-party by Intertek, INSPEC International Ltd., CSA International and SAI Global Ltd.

	Description	P/N	Features
V-GARD FRAME FOR FULL-BRIM HELMETS FOR STANDARD PURPOSE	V-Gard Frame for hats	10116627	Heavy duty flat rubber strap allows easy and secure placement on all MSA hats, including non-slotted models Design allows use with other PPE, including MSA earmuffs and respirators

¹Standards requirements met by each V-Gard Frame/V-Gard Visor combination designated on each V-Gard Visor.

²Patent-pending.

AWARNING

Use V-Gard Frames ONLY with V-Gard Visors to ensure compliance with safety standards. Misuse can result in death, permanent impairment of sight or other serious injury.

V-Gard Accessory System: General Purpose V-Gard Visors (Thick with Anti-Fog/Anti-Scratch Coatings)

Classification: General purpose

Market(s): General industry, manufacturing, repair and maintenance, construction, oil and gas, forestry, shipbuilding,

metalworking, automotive, mining

Application(s): Hot/humid conditions, chipping, splash, chiseling, drilling, grinding, machining, power fastening, sanding, sawing

Material: Polycarbonate with anti-fog/anti-scratch coatings

Color(s): Clear

Green tint

Available Styles: Contoured; visors and nitrometers

Size: 8" (20.3 cm) x17" (43.2 cm) x .06" (1.52mm)

Features: Anti-fog/anti-scratch coatings

Impact-rated (Z87+)

Maximum UV protection ("U6")

Slightly thicker for industrial impact applications

Standards: ANSI/ISEA Z87.1-2010 and CSA Z94.3

Certification: Third-party by Intertek and CSA International

	Description	P/N	Features
V-GARD VISORS FOR GENERAL PURPOSE APPLICATIONS	Clear, PC, side contours, AF/AS	10115839	Contoured visor; closer fit and improved resistance to impact and splash hazards. Clear
	Clear, PC, side contours, nitrometer, AF/AS	10115841	Nitrometer; for use with V-Gard Retractable or Standard Chin Protectors Contoured visor; closer fit and improved resistance to impact and splash hazards. Clear

V-Gard Chin Protectors

V-Gard Chin Protectors work with select V-Gard Nitrometers to help provide extra protection from impact and splash hazards to face and neck.

Note: MSA V-Gard Chin Protectors meet the applicable safety requirements as noted on the V-Gard Nitrometer Visor when worn in conjunction with V-Gard Frames and V-Gard Nitrometer Visors.

	Description	P/N	Features
CHIN PROTECTOR	Retractable Chin Protector	10115828	3.82" (9.7 cm) in height, when unretracted Unique retractable plates allow greater flexibility of head movement both up and down, as well as side-to-side. Opaque material ensures safety and standards compliance with clear, tinted, shaded, and coated V-Gard Visors.



Sightgard Safety Glasses

	Description	P/N	Features
BLOCKZ™ PROTECTIVE EYEWEAR	Blockz Clear, AS/AF	10106379	Brow shelf prevents debris from falling into eyes Sliding temple adjustment Tuff Stuff anti-scratch coating

Classification: Indoor, temperate environments

Market(s): Facility maintenance, repair and operations, general manufacturing and industry

Application(s): Drilling, grinding, machining, sanding, sawing **Material:** Clear polycarbonate lenses and frames

Features: Impact-rated (Z87+)

Anti-scratch coating (as noted)

Standards¹: ANSI/ISEA Z87.1-2010 and CSA Z94.3 (as noted) **Certification:** Third-party by Intertek and CSA International

		Model	P/N	Features
TEMPERATE INDOOR APPLICATIONS		Arctic™	697514	Frameless and lightweight Among our most popular models! Tuff Stuff anti-scratch coating Full side coverage
	D	Discovery™ II	10106382	Flexible, nylon temple arms adjust to head width Soft nose bridge So light, you forget you have them on

Classification: Outdoor: general use

Market(s): Aviation, general manufacturing, mining, oil and gas, pharmaceuticals, primary metals, transportation **Application(s):** Assembly and mechanical, chipping, chiseling, cleaning, drilling, grinding, machining, sanding, sawing

Material: Polycarbonate

Features: Grey tint lenses offer glare reduction with the least amount of color distortion

Anti-fog/anti-scratch coatings (as noted)

Impact-rated (Z87+)

Standards¹: ANSI/ISEA Z87.1-2010 and CSA Z94.3 (as noted) **Certification:** Third-party by Intertek and CSA International

	Description	P/N	Features
GENERAL OUTDOOR USE APPLICATIONS	Arctic	697515	Popular, lightweight model Full side coverage Anti-scratch coating

¹ CSA International-certified models are denoted with a CSA symbol.

Mold Remediation Products

Classification: Indoor/outdoor

> Market(s): General industry, manufacturing, construction, oil and gas, forestry, shipbuilding, automotive, food and beverage,

> > mining, pharmaceuticals, primary metals, transportation

Assembly and mechanical, chipping, chiseling, cleaning, drilling, grinding, machining, masonry, riveting, Application(s):

sanding, sawing, UV protection

Polycarbonate **Material:**

Features: Maximum UV protection

Light mirror lenses provide glare reduction without significantly reducing light transmittance

Impact-rated (Z87+)

Anti-fog and/or anti-scratch coatings (as noted) ANSI/ISEA Z87.1-2010 and CSA Z94.3 (as noted) Standards¹: **Certification:** Third-party by Intertek and CSA International

	Description	P/N	Features
INDOOR/ OUTDOOR APPLICATIONS	Arctic	10008179	Blue mirror reduces glare without causing color degradation Popular, lightweight model Full side coverage Anti-scratch coating

Classification: Specialty: over-the-glasses

Market(s): Facility safety, maintenance, repair and operations, overhaul, general industry, manufacturing, construction;

oil and gas; metalworking; automotive

Assembly and mechanical, drilling, grinding, machining, masonry, power fastening, riveting, sanding, sawing Application(s):

Material: Polycarbonate **Features:** Clear lenses

Impact-rated (Z87+)

Maximum UV protection (as noted)

Anti-fog and/or anti-scratch coatings (as noted) ANSI/ISEA Z87.1-2010 and CSA Z94.3 (as noted)

Standards¹: **Certification:** Third-party by Intertek and CSA International

	Description	P/N	Features
RX GLASSES REQUIRED APPLICATIONS	OvG™ II	10118475	Clear lens for indoor use For use over small-to-medium Rx glasses Squared-off, stylish look Maximum UV protection 30% lighter that standard visitor spectacles
	OvG II	10118476	Indoor/outdoor mirrored lens For use over small-to-medium Rx glasses Squared-off, stylish look Maximum UV protection

¹ CSA International-certified models are denoted with a CSA symbol.



Sightgard Safety Goggles

Classification: Chemical and splash

Market(s): Chemicals, construction, food and beverage, general manufacturing and industry, mining, oil and gas,

pharmaceuticals, primary metals, transportation, shipbuilding, automotive

Application(s): Cleaning, chemical mixing and use, chipping, chiseling, drilling, grinding, machining, painting, power washing,

sanding, sawing, splash

Material: Acetate lens, PVC frame

Features: Clear

Impact-rated (Z87+) Splash rated (D3)

Standards¹: ANSI/ISEA Z87.1-2010 and CSA Z94.3

Certification: Third-party by Intertek and CSA International

	Description	P/N	Features
CHEMICAL AND SPLASH APPLICATIONS	FlexiChem™ iV	10106281	Soft, pliable goggle body ensure all-day comfort Indirect vent helps eliminate fogging while retaining splash resistance Acetate lens resists warping, cracking and crazing from chemical splash Anti-fog coating Flame-retardant strap

Classification: Industrial impact/splash

Market(s): Construction, food and beverage, general manufacturing and industry, mining, oil and gas, pharmaceuticals,

primary metals, transportation, shipbuilding, automotive

Application(s): Chipping, chiseling, drilling, grinding, machining, painting, power washing, sanding, sawing, splash

Material: Polycarbonate lens

Features: Clear

Anti-fog coating

Indirect venting helps keep lens fog-free

Impact-rated (Z87+)

Splash rated (D3)

Standards¹: ANSI/ISEA Z87.1-2010 and CSA Z94.3 (as noted) **Certification:** Third-party by Intertek, CSA International, UL

	Description	P/N	Features
INDUSTRIAL IMPACT/SPLASH APPLICATIONS	Vault™	10106282	Modern styling Comfortable, thick strap Tuff Stuff anti-scratch coating

¹ CSA International-certified models are denoted with a CSA symbol.



Goggle Retainers

	Description	P/N	Features
GOGGLE RETAINERS	Goggle retainer, for caps	459458	Sturdy neoprene-rubber accessory can be used with any protective cap or hat. Retains goggle on headwear when no in use and holds goggle securely when worn for eye protect MSA goggle retainers are manufactured for use ONLY w MSA goggles in order to comply with ANSI/ISEA Z87.1-20
	Goggle retainer, for hats	449895	

Our Mission

MSA's mission is to see to it that men and women may work in safety and that they, their families and their communities may live in health throughout the world.

MSA: Because every life has a purpose.

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.

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