

MSA Industrial and Super-Size Gas Masks



MSA
The Safety Company



Full-facepiece air-purifying respirators for routine use in or emergency escape from IDLH atmospheres. Each consists of a full facepiece, breathing tube, harness, and chemical-absorbent canister that filters out certain gases, vapors, and particulates. In plastic carrying case.

MSA's Industrial and Super-Size

Gas Masks are full-facepiece, air-purifying respirators with a single canister designed for respiratory protection against a specific gas or group of gases, as indicated by canister identification. The canister is connected to the facepiece with a corrugated breathing tube, and supported on the wearer's chest with a nylon carrying harness. Gas masks are used in a variety of industries, including paper mills, chemical plants, agri-business, fumigation, and hazmat situations.

Routine Use(s)

Gas masks are air-purifying devices designed solely to remove specific contaminants from the air, so it is essential that their use be restricted to entry into and work in atmospheres within the canister limitations. They are not intended for atmospheres containing less than 19.5% oxygen. Gas masks may be used for escape only from atmospheres in which the contaminant concentration does not exceed the maximum use concentration of the gas mask. Gas masks have the following maximum-use limitations:

Routine Use

50 times the Permissible Exposure Level – Do Not Exceed the Immediately Dangerous to Life or Health (IDLH) Concentration.

Escape

Contaminant concentrations up to the maximum-use concentrations of the gas mask, providing there is sufficient oxygen to support life.

From a practical standpoint, gas masks are generally suitable for ventilated areas with relatively stable contaminant concentration levels. They should never be used in confined spaces or where oxygen deficiency and high gaseous concentrations may occur.

Ultravue® or Ultra Elite® Facepiece

All standard MSA Gas Masks are equipped with an Ultravue Facepiece molded from specially formulated Hycar rubber, a combination of natural and synthetic materials. This makes the facepiece soft and pliable for a snug, comfortable fit. Hycar rubber also resists chemical attack and temperature extremes, and is able to withstand rugged day-to-day use.

As an option, the Ultra Elite Facepiece can be "special-ordered" for the gas mask. The Ultra Elite Facepiece incorporates the latest in design, testing, and modeling. The result is a facepiece that provides exceptional downward and peripheral visibility, comfort, fit, and communication ability.

The Ultravue and Ultra Elite Facepieces are available in three sizes: small, medium, and large. They are also available in silicone rubber, for those who prefer the feel of silicone. The respirator lens is made of polycarbonate, chemically coated on both sides to resist scratching and chemical attack. A noseclip is standard to help reduce lens fogging in low temperatures or high-humidity conditions. In addition, a mechanical speaking diaphragm is standard in each facepiece for short-range voice communication.

Ultravue® Demand Facepiece			
Part Number	Size	Color	Material
471218	Small	Black	Hycar
480251	Small	Black	Silicone
457126	Medium	Black	Hycar
480247	Medium	Black	Silicone
471230	Large	Black	Hycar
480255	Large	Black	Silicone
Ultra Elite® Demand Facepiece			
493064	Small	Black	Hycar
493072	Small	Black	Silicone
493020	Medium	Black	Hycar
493028	Medium	Black	Silicone
493108	Large	Black	Hycar
493116	Large	Black	Silicone

All of the Industrial Size and Super-Size Gas Masks have received NIOSH approval. See Replacement Canister Chart for specific approval numbers.

Breathing Tube

The synthetic rubber-polymer breathing tube is durable and resists chemicals, crushing, and pinching. Numerous corrugations along the length of the tube allow it to stretch for free head movement without breaking the face-to-facepiece seal.

Harness

An adjustable harness, consisting of webbing and a cover shell, support the gas mask canister. Tubular nylon webbing resists chemicals and moisture, is easily cleaned, and keeps its snug fit indefinitely with proper care. The rigid nylon shell fits over the top of the canister and positions the canister in the harness.

Part Number	Description
88306	10" Breathing Tube (Standard)
457175	Side/Back Mounted Breathing Tube (Optional)
84937	Canister Carrying Harness

Canisters

Different color-coded canisters for specific contaminants are labeled according to type and limitations, making them easy to identify. All canisters are made of a seamless aluminum canister body to prevent potential leakage or channeling of gases or vapors past the chemical sorbents. The compact oval shape makes the canister easy to use and store.

Industrial Size Canisters (2 types) protect against:

- ➔ Ammonia
- ➔ Chlorine

Super-Size Canisters (2 types) protect against:

- ➔ Ethylene oxide
- ➔ Acid gas, organic vapor, carbon monoxide, ammonia

Replacement Canisters for Industrial and Super-Size Gas Masks					
MSA Canister Identification	Purifying Protection Code	Color Coding	Approval	Maximum Use Conditions	Part Number
GMD-N95	AM		TC-14G-0196	3% ammonia*	816002
GML-N95	CL		TC-14G-0207	2% chlorine*	816003
GME0-SSW-N95	EO		TC-14G-0199	0.5% ethylene oxide* Window-Cator® canister has end-of-service indicator for ethylene oxide	816010
Type N	AG/OV/CO/AM		TC-14G-0233	2% acid gases, organic vapors, or carbon monoxide; 3% ammonia, or 2% total when more than one class is present; also effective against hydrogen fluoride gas** Window-Cator® canister has end-of-service indicator for carbon monoxide	816012

* Canister contains an 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.

Industrial Size Gas Masks

The Industrial Size Gas Mask uses a smaller oval aluminum canister than the Super-Size Gas Mask. The gas mask is generally approved to a maximum use concentration of 20,000 ppm (2%) by volume. At these upper use conditions, the service time may be extremely short (as low as 12 minutes). See Replacement Canister Chart for specific maximum use conditions.

Industrial-Size Gas Mask, Complete Assemblies		
Each assembly includes medium black Hycar Ultravue Facepiece, 10" breathing tube, harness assembly, and one indicated canister packaged in a plastic carrying case.		
Gas	Canister	Part #
Ammonia	816002 GMD-N95; front-mounted	817072
Chlorine	816003 GMD-N95; front-mounted	817073

Super-Size Gas Masks

The Super-Size Gas Mask uses a larger oval aluminum oval canister that includes a Service Life Indicator. The gas mask is generally approved to a maximum use concentration of 20,000 ppm (2%) by volume. At these upper use conditions, the service time may be extremely short (as low as 12 minutes). See Replacement Canister Chart for specific maximum use conditions.

The small round window in the front of the canister is an end-of-service-life indicator (ESLI). The indicator is provided because the contaminant has poor warning properties. In use, as the chemical in the canister absorbs the contaminant, the ESLI gradually changes colors.

Super-Size Gas Mask, Complete Assemblies		
Each assembly includes medium black Hycar Ultravue Facepiece, 10" breathing tube, harness assembly, and two indicated canister packaged in a plastic carrying case.		
Gas	Canister	Part #
Ethylene oxide	816010 GME0-SSW-N95; front-mounted	817078
Acid gas, organic vapor, carbon monoxide, ammonia	816012 Type N-P100; front mounted	817080

When the shade of the ESLI changes from its "Starting" color to the "Time-To-Change" color, the canister is beginning to lose its effectiveness against the contaminant and must be replaced. To monitor the ESLI, the canister must be worn in the front-mounted position when used during routine use in atmospheres containing the known contaminant. The table below summarizes the type of canister, its intended use, and the nature of the indication.

Canister Type	Used Against	Starting Color	Time-to-Change Color
Type N-P100	Carbon Monoxide	Dark Blue	Light Blue
GME0-SSW-N95	Ethylene Oxide	Yellow	Darkens to Brown-Blue

Gas Mask Carrying Case

Each Industrial- and Super-Size Gas Mask is supplied in a one-piece molded plastic carrying case (with no metal parts).



Accessories

Spectacle Kits

For users who must wear corrective lenses, the spectacle kit can be easily inserted into the facepiece. The kit includes wire support, rubber guards, and one pair of metal-frame spectacles (less lenses).



Spectacle Kits	
Description	Part No.
Prescription Eyeglass Kit for Advantage 3000 Facepiece (S-7 shape, 44 mm lens)	10029298
Prescription Eyeglass Kit for Ultravue Facepiece (S-7 shape, 44 mm lens)	454819
Prescription Eyeglass Kit for Ultra Elite Facepiece (S-7 shape, 44 mm lens)	804638

MSA Confidence Plus® Germicidal Cleaner

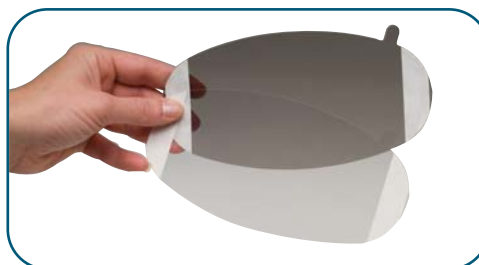
Mix with warm water for a germicidal cleaner that is effective against various micro-organisms, including immunodeficiency virus Type I (HIV-1) (associated with AIDS). EPA-approved for use on safety equipment.



MSA Confidence Plus Germicidal Cleaner, in 32 oz. bottle	10009971
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Lens Cover

MSA offers an assortment of facepiece accessories that provide added lens durability or shading for special applications. Lens covers, either smoke-tinted or clear, provide a convenient way to add a layer of protection against scratches.



Cover Lens for Full Facepiece Respirators			
Color	No./Box	Facepiece	Part No.
Clear	25	Ultra Elite	491500
Smoke-tinted	25	Ultra Elite	805456
Clear	25	Ultravue	456975
Smoke-tinted	25	Ultravue	480326

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 0515-03-MC / March 2008
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