

Respirator Cartridge Chart



Advantage Respirator Cartridges			Acid Gases												Filter Type & Efficiency			See Notes below																											
MSA Cartridge Description	Re-Order Part Number	Color Coding	Organic Vapor	Chlorine	Sulfur Dioxide	Chlorine Dioxide	Hydrogen Chloride	Hydrogen Sulfide	Ammonia	Methylamine	Formaldehyde	Hydrogen Fluoride	Mercury Vapor	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																																										
R95 Snap-On Prefilter and Cover	815397 Box of 20 815401 Reusable Snap-On Cover, 2 in a Package		An appropriate cartridge change-out schedule must be developed by a qualified professional, unless the cartridge/canister utilizes an end-of-service-life indicator. The change-out schedule must take into account all factors that may influence respiratory protection including specific work practices and other conditions unique to the worker's environment. If using against substances having poor warning properties, there is no secondary means of knowing when to replace the cartridges/canister. In such cases, take appropriate additional precautions to prevent overexposure, which may include a more conservative change-out schedule or using an air-supplied respirator 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:																																										
Definitions			<p>N95-Particulate Filter (95% filter efficiency level) effective against particulate aerosols free of oil; time use restrictions may apply.</p> <p>R95-Particulate Filter (95% filter efficiency level) effective against all particulate aerosols; time use restrictions may apply.</p> <p>P100-Particulate Filter (99.97% filter efficiency level) effective against all particulate aerosols.</p>																																										
* Effective against, but not NIOSH-approved, for Iodine Vapor.			<table border="0"> <tr> <td>Acrolein</td> <td>Hydrogen cyanide</td> <td>Nitric acid</td> <td>Phosphorus trichloride</td> </tr> <tr> <td>Aniline</td> <td>Hydrogen selenide</td> <td>Nitro compounds</td> <td>Stibine</td> </tr> <tr> <td>Arsine</td> <td>Methanol</td> <td>Nitrogen oxides</td> <td>Sulfur chloride</td> </tr> <tr> <td>Bromine</td> <td>Methyl bromide</td> <td>Nitroglycerin</td> <td>Urethane or other diisocyanate-containing paints</td> </tr> <tr> <td>Carbon monoxide</td> <td>Methyl chloride</td> <td>Nitromethane</td> <td></td> </tr> <tr> <td>Diisocyanates</td> <td>Methylene chloride</td> <td>Phosgene</td> <td>Vinyl chloride</td> </tr> <tr> <td>Dimethyl sulfate</td> <td>Nickel carbonyl</td> <td>Phosphine</td> <td></td> </tr> </table>															Acrolein	Hydrogen cyanide	Nitric acid	Phosphorus trichloride	Aniline	Hydrogen selenide	Nitro compounds	Stibine	Arsine	Methanol	Nitrogen oxides	Sulfur chloride	Bromine	Methyl bromide	Nitroglycerin	Urethane or other diisocyanate-containing paints	Carbon monoxide	Methyl chloride	Nitromethane		Diisocyanates	Methylene chloride	Phosgene	Vinyl chloride	Dimethyl sulfate	Nickel carbonyl	Phosphine	
Acrolein	Hydrogen cyanide	Nitric acid	Phosphorus trichloride																																										
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Dimethyl sulfate	Nickel carbonyl	Phosphine																																											
Notes			<ol style="list-style-type: none"> 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. Both a prefilter and cover must be used with the cartridge in order to obtain R95 or N95 particulate protection. 																																										

Comfo Respirator Cartridges

The Comfo line of particulate, chemical and combination cartridges is NIOSH-certified to 42 CFR, Part 84. Cartridges fit Comfo Classic, Ultra-Twin, Ultra Elite Twin-Cartridge and Duo-Twin Respirators, and certain half-mask and full-face Advantage Respirators with Adapter (P/N 809999).

			Acid Gases											Filter Type & Efficiency			See Definitions on previous page		
MSA Cartridge Description	Re-Order Part Number	Color Coding	Organic Vapor	Chlorine	Sulfur Dioxide	Chlorine Dioxide	Hydrogen Chloride	Hydrogen Sulfide	Ammonia	Methylamine	Formaldehyde	Hydrogen Fluoride	Mercury Vapor	P100	R95	N95		See Notes on p. 11	
Organic Vapor (GMA)	464031 (10 in pkg.)																	2,3,5	
Organic Vapor/P100 (GMA)	815178 (6 in pkg.)																	2,3,4	
Organic Vapor/P100 Short Stack (GMA)	815186 (6 in box)																	2,3,4	
Acid Gas (GMB)	464032 (10 in box)																		2,5
Acid Gas/P100 (GMB)	815179 (6 in box)																	2,4	
Organic Vapor/Acid Gas (GMC)	464046 (10 in pkg.)																		2,3,5
Organic Vapor/Acid Gas/P100 (GMC)	815180 (6 in box)																	2,3,4	
Organic Vapor/Acid Gas/P100 Short Stack (GMC)	815188 (6 in box)																	2,3,4	
Ammonia/Methylamine (GMD)	464033 (10 in box)																		2,3,5
Ammonia/Methylamine/P100 (GMD)	815181 (6 in box)																	2,3,4	
Multigas (GME)	492790 (10 in box)																	2,3,5	
Multigas/P100 (GME)	815182 (6 in box)																	2,3,4	
Iodine Vapor/P100 (GMI)*	815184 (6 in box)																	2,4	
Chlorine/Mercury Vapor (Mersorb)	466204 (10 in box)																	2,5	
Chlorine/Mercury Vapor/P100 (Mersorb)	815185 (6 in box)																	2,4	
P100	815175 (10 in box)																	1,4	
Sparkfoe® P100	815176 (10 in box)																	1,4	
Low-Profile P100	10153412 (16 in box)																	1,4	
Stand-alone and cover N95 and covers required for Comfo Respirators	816662 N95 (10 in pkg.) 816661 N95 (50 in pkg.) 489353 Reusable snap-on cover (1 in pkg.; 2 req.)																	1	
Prefilter and Cover N95	816662 N95 (10 in pkg.) 816661 N95 (50 in pkg.) 489353 Reusable snap-on cover (1 in pkg.; 2 req.)																	1	
Prefilter and Cover R95	816287 R95 (20 in box) 489219 R95 Reusable snap-on cover (1 in pkg.; 2 req.)																	1	

* Effective against, but not NIOSH-approved for Iodine Vapor. Note: See **WARNING** on previous page.

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 for maintaining a good face seal, while their swept-back design provides improved vision and comfort.

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

See **Notes** on p. 11

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

THREADED RESPIRATOR CARTRIDGES FOR ULTRA FILTER RESPIRATORS	10010420	Round Ultra Filter Cartridge, box of 6
	10010421	Round Ultra Filter Cartridge, box of 50

