

# Respirator Cartridge Chart



## Advantage Respirator Cartridges

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.

MSA Cartridge Description	Re-Order Part Number	Color Coding	Acid Gases												Filter Type & Efficiency			See Notes below	
			Organic Vapor	Chlorine	Sulfur Dioxide	Chlorine Dioxide	Hydrogen Chloride	Hydrogen Sulfide	Ammonia	Methylamine	Formaldehyde	Hydrogen Fluoride	Mercury Vapor	P100	R95	N95			
Organic Vapor (GMA)	815355		OV																2,3
Organic Vapor w/N95 Prefilter (GMA)	815355 w/815394 or 816357		OV																2,3,5
Organic Vapor w/R95 Prefilter (GMA)	815355 w/815397		OV																2,3,5
Organic Vapor/P100 (GMA)	815362		OV																2,3,4
Acid Gas (GMB)	815356			CL	SD	CD	HC	HS											2
Acid Gas w/N95 Prefilter (GMB)	815356 w/815394 or 816357			CL	SD	CD	HC	HS											2,5
Acid Gas w/R95 Prefilter (GMB)	815356 w/815397			CL	SD	CD	HC	HS											2,5
Acid Gas/P100 (GMB)	815363			CL	SD	CD	HC	HS											2,4
Organic Vapor/Acid Gas (GMC)	815357		OV	CL	SD	CD	HC	HS											2,3
Organic Vapor/Acid Gas w/N95 Prefilter (GMC)	815357 w/815394 or 816357		OV	CL	SD	CD	HC	HS											2,3,5
Organic Vapor/Acid Gas w/R95 Prefilter (GMC)	815357 w/815397		OV	CL	SD	CD	HC	HS											2,3,5
Organic Vapor/Acid Gas/P100 (GMC)	815364		OV	CL	SD	CD	HC	HS											2,3,4
Ammonia/Methylamine (GMD)	815358								AM	MA									2,3
Ammonia/Methylamine w/N95 Prefilter (GMD)	815358 w/815394 or 816357								AM	MA									2,3,5
Ammonia/Methylamine w/R95 Prefilter (GMD)	815358 w/815397								AM	MA									2,3,5
Ammonia/Methylamine/P100 (GMD)	815365								AM	MA									2,3,4
Multigas (GME)	815359		OV	CL	SD	CD	HC	HS	AM	MA	FM	HF							2,3
Multigas w/N95 Prefilter (GME)	815359 w/815394 or 816357		OV	CL	SD	CD	HC	HS	AM	MA	FM	HF							2,3,5
Multigas w/R95 Prefilter (GME)	815359 w/815397		OV	CL	SD	CD	HC	HS	AM	MA	FM	HF							2,3,5
Multigas/P100 (GME)	815366		OV	CL	SD	CD	HC	HS	AM	MA	FM	HF							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

### ⚠ 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:

Definitions	Acrolein	Hydrogen cyanide	Nitric acid	Phosphorus trichloride
<b>N95-Particulate Filter (95% filter efficiency level)</b> effective against particulate aerosols free of oil; time use restrictions may apply.	Aniline	Hydrogen selenide	Nitro compounds	Stibine
<b>R95-Particulate Filter (95% filter efficiency level)</b> effective against all particulate aerosols; time use restrictions may apply.	Arsine	Methanol	Nitrogen oxides	Sulfur chloride
<b>P100-Particulate Filter (99.97% filter efficiency level)</b> effective against all particulate aerosols.	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	

- 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.
  - Both a prefilter and cover must be used with the cartridge in order to obtain R95 or N95 particulate protection.

Comfo Respirator Cartridges			Acid Gases												Filter Type & Efficiency			See <b>Definitions</b> on previous page
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).			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	
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 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.

MSA Filter Description	Part No.	Color Coding	Filter Type & Efficiency			Notes
			P100	P95	N95	
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

