

# Advantage® Respirator Cartridges

The Advantage line of particulate, chemical and combination cartridges is NIOSH-approved (to 42 CFR, Part 84) and provides lightweight, low-profile performance. Cartridges fit both 200 LS Half-Mask and 3000 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																														
GMA	815355																		2,3																											
GMA with N95 Prefilter	815355 with 815394 or 816357																		2,3																											
GMA with R95 Prefilter	815355 with 815397																		2,3																											
GMA P100	815362																		2,3,4																											
GMB	815356																		2																											
GMB with N95 Prefilter	815356 with 815394 or 816357																		2																											
GMB with R95 Prefilter	815356 with 815397																		2																											
GMB P100	815363																		2,4																											
GMC	815357																		2,3																											
GMC with N95 Prefilter	815357 with 815394 or 816357																		2,3																											
GMC with R95 Prefilter	815357 with 815397																		2,3																											
GMC P100	815364																		2,3,4																											
GMD	815358																		2,3																											
GMD with N95 Prefilter	815358 with 815394 or 816357																		2,3																											
GMD with R95 Prefilter	815358 with 815397																		2,3																											
GMD P100	815365																		2,3,4																											
GME	815359																		2,3																											
GME with N95 Prefilter	815359 with 815394 or 816357																		2,3																											
GME with R95 Prefilter	815359 with 815397																		2,3																											
GME P100	815366																		2,3,4																											
GMI P100**	815641																	2,4																												
Mersorb	815361																		2,4																											
Mersorb with N95 Prefilter	815361 with 815394 or 816357																		2,4																											
Mersorb with R95 Prefilter	815361 with 815397																		2,4																											
Mersorb P100	815368																		2,4																											
Low-Profile P100	815369																		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	<b>⚠ WARNING</b>																																												
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:																																												
<b>Definitions</b>		<p><b>N95-Particulate Filter (95% filter efficiency level)</b> effective against particulate aerosols free of oil; time use restrictions may apply.</p> <p><b>R95-Particulate Filter (95% filter efficiency level)</b> effective against all particulate aerosols; time use restrictions may apply.</p> <p><b>P100-Particulate Filter (99.97% filter efficiency level)</b> effective against all particulate aerosols.</p>																																												
* Escape only.		<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	
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**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.

# 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 below



MSA Filter Description	Part No.	Color Coding	P100	R95	N95	See Notes below
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
Flexi-Filter P95 HF Removal (NIOSH)	10063227					1

### 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

1. 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.
2. Do not use in atmospheres containing less than 19.5 percent oxygen, or in atmospheres immediately dangerous to life and health.
3. 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.
4. 99.97 percent efficient against 0.3 micron DOP.



Flexi-Filter HF filter

For more information, see Bulletin 1012-08.