

# Comfo® Respirator Cartridges

MSA Cartridge Designation		Part No.	Acid Gases															See Notes Below
			Organic Vapor	Chlorine	Sulfur Dioxide	Chlorine Dioxide	Hydrogen Chloride	Hydrogen Sulfide*	Ammonia	Methylamine	Formaldehyde	Hydrogen Fluoride	Mercury Vapor	Filter Type & Efficiency***				
GMA (OV)		464031 (10 in pkg.)													with R95	with N95	2,3	
GMA		815178 (6 in pkg.)															2,3,4	
GMA  Short Stack		815186 (6 in pkg.)															2,3,4	
GMB (AG)		464032 (10 in pkg.)													with R95	with N95	2	
GMB		815179 (6 in pkg.)															2,4	
GMC (OV/AG)		464046 (10 in pkg.)													with R95	with N95	2,3	
GMC		815180 (6 in pkg.)															2,3,4	
GMC  Short Stack		815188 (6 in pkg.)															2,3,4	
GMD		464033 (10 in pkg.)													with R95	with N95	2,3	
GMD		815181 (6 in pkg.)															2,3,4	
GME (Multigas)		492790 (10 in pkg.)													with R95	with N95	2,3	
GME		815182 (6 in pkg.)															2,3,4	
GMI  **		815184 (6 in pkg.)															2,4	
Mersorb®		466204 (10 in pkg.)													with R95	with N95	2,4	
Mersorb		815185 (6 in pkg.)															2,4	
		815175 (10 in pkg.)															1,4	
Sparkfoe®		815176 (10 in pkg.)															1,4	
Low Profile		815177 (10 in pkg.)															1,4	
Stand-alone & cover		816662 N95 (10 in pkg.) 816661 N95 (50 in pkg.) 489353 Reusable snap-on cover (1 in pkg.; 2 req.)															1	
Prefilter & cover		816662 N95 (10 in pkg.) 816661 N95 (50 in pkg.) 489353 Reusable snap-on cover (1 in pkg.; 2 req.)															1	
Prefilter & cover		816287 R95 (20 in pkg.) 489219 R95 Reusable snap-on cover (1 in pkg.; 2 req.)															1	

\*Escape only. \*\* Effective against, but not NIOSH approved for Iodine Vapor.

## ⚠ WARNING

Below is a partial list of gaseous materials for which chemical cartridge respirators must not be used for respiratory protection (for routine use) regardless of concentration or time of exposure unless: (1) the cartridge is equipped with an end-of-service-life indicator, or (2) a documented cartridge change-out schedule is developed based in objective information or data (including MSA service-life performance data against the specific material) that will ensure that cartridges are changed before the end of their service life. Failure to follow this warning can result in serious personal injury or death. This partial list is far from complete and is offered as a guide to many of the contaminants found in industry. Contact MSA for further information on other specific materials.

Acrolein	Diisocyanates	Nickel carbonyl	Phosphorus trichloride
Aniline	Dimethyl sulfate	Nitric acid	Stibine
Arsine	Hydrogen cyanide	Nitro compounds	Sulfur chloride
Bromine	Hydrogen selenide	Nitrogen oxides	Urethane or other diisocyanate-containing paints
Carbon monoxide	Methanol	Nitroglycerin	Vinyl chloride
	Methyl bromide	Nitromethane	
	Methyl chloride	Phosgene	
	Methylene chloride	Phosphine	

## \*\*\* 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

- 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.