

TECHNICAL DATASHEET

MPC40PF POWERED AIR PURIFYING CARTRIDGE

DESCRIPTION

Part Number 045170
 Shelf Life 5 years (from date of manufacture)
 Diameter 4.25 inches (10.8 cm)
 Height 4.13 inches (10.5 cm)
 Weight 0.77 lbs (350 g)
 Connection 40mm thread
 Body Material. Black polyamide

For PAPR use only



NIOSH APPROVED WITH SCOTT PAPR'S FOR PROTECTION AGAINST*

Acid Gases (AG)	Chlorine (CL)	x
	Chlorine Dioxide (CD)	x
	Hydrogen Chloride (HC)	x
	Hydrogen Fluoride (HF)	x
	Hydrogen Sulfide (HS) (esc) ²	x
	Sulfur Dioxide (SD)	x
Base Gases	Ammonia (AM)	x
	Methylamine (MA)	x
Aldehydes	Formaldehyde (FM)	x
Organic Vapors (OV)	Organic Vapors (OV)	x
Particulates	Particulates (HE) ¹	x

*NIOSH only approves complete respirators. Please refer to the approval label that comes with your cartridge for the complete respirator configuration.

Note 1 - Particulate filter effective against all particulate aerosols. This filter has an efficiency level of 99.97%.

Note 2 - For escape only.

Service life available through Scott Safety at www.scottsurelife.com

NIOSH TESTING CONDITIONS AND RESULTS

Test Agent	Test Concentration	Flow Rate ¹	Breakthrough Concentration	Required Breakthrough Time (min) ²	Tested Breakthrough Time (min) ³
Ammonia (AM)	1000 ppm	115 lpm/ 170 lpm	50.0 ppm	25 (12.5)	36
Chlorine (CL)	500 ppm	115 lpm/ 170 lpm	5.0 ppm	17.5	190
Chlorine Dioxide (CD)	500 ppm	115 lpm/ 170 lpm	0.1 ppm	30	>60
Formaldehyde (FM)	100 ppm	115 lpm/ 170 lpm	1.0 ppm	50	>100
Hydrogen Chloride (HC)	500 ppm	115 lpm/ 170 lpm	5.0 ppm	25 (12.5)	560
Hydrogen Fluoride (HF)	70 ppm	115 lpm/ 170 lpm	3.0 ppm	30	>60
Hydrogen Sulfide (HS) (esc)	1000 ppm	115 lpm/ 170 lpm	10.0 ppm	30	>60
Methylamine (MA)	1000 ppm	115 lpm/ 170 lpm	10.0 ppm	12.5	107
Organic Vapors (OV)	1000 ppm	115 lpm/ 170 lpm	5.0 ppm	25 (12.5)	68 (19.3) ⁴
Sulfur Dioxide (SD)	500 ppm	115 lpm/ 170 lpm	5.0 ppm	15 (7.5)	34

Note 1 - Flow rate divided by the least number of cartridges used on the configuration for service life. Flow rate for tight fitting configurations is 115 l/min and 170 l/min for loose fitting configurations.

Note 2 - The cartridges are tested: as received and pre-equilibrated to 25% and 85%RH. In both cases, the test condition is 25 C and 50% RH. The minimum time for both conditions is the same unless otherwise stated. APR cartridges are equilibrated at 25 l/min and PAPR cartridges are equilibrated at the test flow rate as determined per note 1.

Note 3 - Unless otherwise stated the breakthrough time provided is for the worst case test condition. Tested breakthrough time is for the specific chemical cartridge when tested under controlled laboratory conditions. The times provided apply only to Scott Safety cartridges and canisters at the specified conditions. Breakthrough time under actual use conditions may differ based upon the encountered contaminant and environmental conditions.

Note 4 - Breakthrough time for water insoluble organic vapors is reduced when the cartridge is equilibrated to 85% RH.

Air purifying respirators are for use only in environments which are not immediately dangerous to life or health (IDLH) where the oxygen levels are above 19.5%. Do not exceed maximum use concentrations established by regulatory standards. In the absence of a contaminant standard, refer to the NIOSH Respirator Decision Logic publications. Warning: Improper use of these respirators may result in personal injury or death. Improper use includes, but is not limited to, use without adequate training, disregard of the warnings and instructions and failure to inspect and maintain these respirators. These respirators are intended to be used in conjunction with an organized respiratory protection program which complies with the requirements of American National Standard for Respiratory Protection, Z88.2-1992, available from American National Standards Institute Inc., 11 West 42nd Street, New York, NY 10036 or the requirements of OSHA Safety and Health Standard 29 CFR 1910.134 and/or 29 CFR 1910.139 available from the U.S. Department of Labor, Occupational Safety and Health Administration or other pertinent nationally recognized standards, such as those promulgated by the U.S. Coast Guard or the Department of Defense or in Canada, CSA Z94.4.1993. These respirators are not intended for use in atmospheres which are, or may become, immediately dangerous to life or health (IDLH) or in atmospheres where the identity and/or concentration of the contaminant is unknown.

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