



## M96 FILTER

**NEW PICTURE NEEDED**

### Technical Data and Manufacturer Certifications

Part Number: S-70020-F01  
 NSN: 4240-01-574-9568  
 Shelf Life: 10 Years (foil bag)  
 Diameter: 4.57 inches (116mm)  
 Height: 3.50 inches (90mm) overall  
 Approx Weight: 13.4 ounces (380 grams) nominal  
 Connection: EN 148-1 (40mm) NATO thread  
 Body Material: Noryl® GFN1  
 Pressure Drop: 42 mm H<sub>2</sub>O (nominal) measured at NIOSH airflow rate of 85 lpm  
 Accessory: S-70018-001, Snap Cap (provides splash protection to the cartridge inlet)

**S-70020-F01**



**Snap Cap S-70018-001**

***NIOSH-Approved Protection meeting/exceeding  
 42 CFR Part 84 requirements:***

Particulates (APR)	P100
Particulates (PAPR)	HE
Ammonia	(AM)
Chlorine Dioxide	(CD)
Chlorine	(CL)
Formaldehyde	(FM)
Hydrogen Chloride	(HC)
Hydrogen Fluoride	(HF)
Hydrogen Sulfide	(HS)
Methylamine	(MA)
Organic Vapors	(OV)
Sulfur Dioxide	(SD)
o-Chlorobenzylidene malononitrile	(CS Tear Gas)
α-Chloroacetophenone	(CN Tear Gas)

***Military Chemical Warfare Agent (CWA)  
 Protection:***

Chloropicrin	(PS)
Cyanogen Chloride	(CK)
Dimethyl Methylphosphonate	(DMMP)
Hydrogen Cyanide	(AC)
Phosgene	(CG)
Sarin	(GB)

*NIOSH Approved Configuration with the AirBoss M96 Filter*

NIOSH Approval No.	Protections	Description
TC-23C-2457	HE/AM/CD/CL/FM/HC/HF/ HS/MA/OV/SD/CS/CN	C420 PAPR w/Promask 2000 Full Facepiece (Positive Pressure)
TC-23C-2458	HE/AM/CD/CL/FM/HC/HF/ HS/MA/OV/SD	FlexAir PAPR w/Loose-fitting Headpieces (Positive Pressure)
TC-23C-2484	HE/AM/CD/CL/FM/HC/HF/ HS/MA/OV/SD	FlexAir PAPR w/Loose-fitting Headpieces (Positive Pressure)
TC-23C-2486	HE/AM/CD/CL/FM/HC/HF/ HS/MA/OV/SD/CS/CN	C420 PAPR w/M95 Full Facepiece (Positive Pressure)
TC-23C-2497	HE/AM/CD/CL/FM/HC/HF/ HS/MA/OV/SD	FlexAir PAPR w/Loose-fitting Headpieces (Positive Pressure)
TC-84A-5036	P100/AM/CD/CL/FM/HC/HF/ HS/MA/OV/SD/CS/CN	Promask 2000 Full Facepiece (Negative Pressure)
TC-84A-5175	P100/AM/CD/CL/FM/HC/HF/ HS/MA/OV/SD/CS/CN	M95 Full Facepiece (Negative Pressure)

AirBoss M96 FILTER INDEPENDENT TEST DATA

AirBoss M96 FILTER EXCEEDS GAS SERVICE LIFE REQUIREMENTS SPECIFIED IN 42 CFR PART 84

Gas/Vapor Challenge	Formula	Test Concentration (ppm)	Break-through Concentration (ppm)	Exceeds NIOSH 42 CFR Part 84 Minimum Service Life Rqmts		
				APR Service Life Rqmts (in minutes)	PAPR Service Life Rqmts As received (in minutes)	PAPR Service Life Rqmts Equilibrated (in minutes)
Ammonia (AM)	NH <sub>3</sub>	1000	50.0	25	25	12.5
Carbon Tetrachloride (OV)	CCl <sub>4</sub>	1000	5.0	25	25	12.5
Chlorine Dioxide (CD)	ClO <sub>2</sub>	500	0.1	30	30	30
Chlorine (CL)	Cl <sub>2</sub>	500	5.0	17.5	17.5	8.7
Formaldehyde (FM)	HCHO	100	1.0	50	50	50
Hydrogen Chloride (HC)	HCl	500	5.0	25	25	12.5
Hydrogen Fluoride (HF)	HF	70	3.0	30	30	30
Hydrogen Sulfide (HS)	H <sub>2</sub> S	1000	10.0	30	30	30
Methylamine (MA)	CH <sub>3</sub> NH <sub>2</sub>	1000	10.0	12.5	25	12.5
Sulfur Dioxide (SD)	SO <sub>2</sub>	500	5.0	15	15	7.5
o-Chlorobenzylidene malonitrile (CS)	ClC <sub>6</sub> H <sub>4</sub> CH=C(CN) <sub>2</sub>	3	0.05	480	480	480
α-Chloroacetophenone (CN)	C <sub>6</sub> H <sub>5</sub> COCH <sub>2</sub> Cl	16	0.05	480	480	480

## AirBoss M96 FILTER EXCEEDS MILITARY CHEMICAL WARFARE AGENT REQUIREMENTS<sup>1</sup>

Gas Challenge	Test Concentration (mg/m <sup>3</sup> )	Test Flow Rate (lpm)	Testing Relative Humidity (%)	Breakthrough Concentration (mg/m <sup>3</sup> )	Minimum Required Service Life Time (in minutes)
Chloropicrin (PS) <sup>2</sup>	5000	30	80	5	27
Cyanogen Chloride (CK) <sup>3</sup>	4000	32	80	8	30
Dimethyl Methylphosphonate (DMMP) <sup>3,5</sup>	3000	50	≤15	0.04	59
Hydrogen Cyanide (AC) <sup>4</sup>	4000	32	80	5	28
Phosgene (CG) <sup>4</sup>	20,000	32	50	8	25
Sarin (GB) <sup>3</sup>	4000	32	≤15	0.04	83

### Notes:

1. There are no NIOSH approval protocols for testing chemical warfare agents in accordance with the requirement referenced in note 2 thru 4 below.
2. Filter gas service life testing in accordance with QSTAG 295, Second Draft.
3. Filter gas service life testing in accordance with MIL-PRF-51560C.
4. Carbon gas service life testing in accordance with MIL-DTL-32101A.
5. Dimethyl Methylphosphonate is a surrogate test agent for Sarin.

This filter is export-controlled by the Department of Commerce, Bureau of Industry and Security. The Export Administration Regulations must be followed to determine if product can be exported to the country of end use.

This filter is also available in a CE approved configuration to EN 14387:2004+A1:2008, A2B2E2K1SXP3 D R