

# FM53

ULTIMATE  
IN VERSATILITY

CE

**AVON**  
PROTECTION

# FM53

## ULTIMATE IN VERSATILITY

Avon's revolutionary FM53 multi-role Respiratory Protective Equipment (RPE) System has been developed specifically for specialist applications where the user needs to respond to changing operational conditions.



- **FIRST RESPONDER - HAZMAT & CBRN**
- **LAW ENFORCEMENT**
- **DECONTAMINATION TEAMS**
- **CLANDESTINE DRUG LAB ENTRY & REMEDIATION**
- **SPECIALIST ENTRY TEAMS**
- **CHEMICAL SPILL CLEAN UP**
- **BIO IDENTIFICATION & CLEAN UP**
- **SWAT/SRT TEAMS**
- **BOMB SQUADS**

# FM53



## KEY FEATURES

- Panoramic single lens visor providing excellent field of view and compatibility with weapon sights and night vision equipment.
- Vision correction assembly for prescription lenses.
- Chlorobutyl rubber and silicone blend giving the mask a high degree of flexibility and comfort for extended use.
- 4 face piece sizes for improved fit.
- 6 point skull cap head harness with low profile pre-adjusted brow straps.
- Standard 40mm thread form compliant with EN148-1.
- Reflex seal with low profile brow for helmet compatibility.
- Fail safe hydration system.
- Integrated removable light weight CBRN protective hood.
- A range of filters are available to meet the variety of needs that the FM53 can address. Please refer to the back page for full details of filter applications.

## MULTIPLE MODES OF OPERATION

- FM53 can function as both a negative and positive pressure mask (APR, SCBA and PAPR modes).
- VREU lever provides the user with the ability to switch between negative and positive pressure operating modes with the Voice Projection Unit (VPU) installed.
- The lever also enables the user to easily identify which pressure mode they are in.
- One mask for all applications.



## SPECIALIST SHOOTERS MASK

- Low profile soft face piece providing superior cheek-to-stock weld for weapons integration.
- Reduced buckle size for suit/helmet integration.



## COMMUNICATIONS

- Integrated voice communications capability with internal microphone for both radio and voice projection unit use.
- Provides ability to easily communicate while wearing mask.



## ST53 Compatibility

### FM53

APR Mode with unique conformal filter.



FM53

### ST53

Provides option to switch between APR mode and positive pressure SCBA with a range of longer duration cylinder options. Can be fitted with PAPR.



FM53



ST53

### ST53SD

Provides option to switch between APR mode and positive pressure SCBA with 7 or 15 minute cylinder duration. Can be combined with ST53 + ST53SD



FM53



ST53SD

### STPAPR

Provides option to switch between APR mode and powered air supply.



FM53



STPAPR

### ST53 with STPAPR

Provides option to switch between APR mode, positive pressure SCBA with a range of longer duration cylinder options and powered air supply.



FM53



ST53



STPAPR

### ST53SD with STPAPR

Provides option to switch between APR mode, positive pressure SCBA with 15 minute cylinder duration and powered air supply.



FM53



ST53SD



STPAPR

# FM53 Technical Data

Technical Data			Weight		
<b>CBRN Agent Resistance</b>		<b>Requirement</b>	<b>FM53 performance</b>	<b>FM53 mask (excluding filter)</b>	0.6 kg (1.3 lbs)
Mustard (H) Sarin (GB) Soman (GD) VX		36 hours	Greater than 36 hours	<b>Field of View</b>	
Laboratory protection factor performance (sodium chloride)		2,000	Greater than 10,000	<b>Visual Field Score – NIOSH CBRN standard</b>	96
<b>Re-breathed CO<sub>2</sub></b>	0.8%	<b>Exhalation resistance negative pressure mode:</b>		<b>Materials Used</b>	
<b>Inhalation Resistance at:</b> 30 L/Min 95 L/Min 160 L/Min	6 mm WG	85 L/Min	11 mm WG	<b>FM53 mask</b>	Chlorobutyl / Silicone rubber & Polyurethane
	11 mm WG	160 L/Min	30 mm WG		
	20 mm WG	<b>Exhalation valve positive mode cracking pressure</b>		35 mm WG	<b>Hydration</b>
				<b>Drinking Flow Rate</b>	230 mL/min

Filter Applications			
Filter	Part Number	Classification	Application
<b>CSCF50</b>	72601/71/4	Riot Control	All particulate hazards including dust, fume, bacteria and virus, plus riot agent CS (meets 8 hour NIOSH test standards) and CN (< 1 hour against NIOSH test standards).
<b>GPCF50</b>	72601/70/2	NATO CBRN	Chemical, biological and radiological warfare agents in accordance with NATO requirements. Also certain toxic industrial chemicals such as chlorine, hydrogen sulphide, sulphur dioxide and organic vapours, with a boiling point of above 65°C.
<b>CTF12</b>	70010/19/2	NIOSH Approved 42 CFR 84CS/CN/P100	All particulate hazards including dust, mist, fume, bacteria and virus, plus riot agents, CS/CN/OC and low level organic vapours.
<b>CBRNF12CE</b>	70010/23/1	CE Approved EN14387:04 A1 B2 E1 K1 P3	Dual classification for industrial and CBRN applications. All particulate hazards including dust, mist, fume, bacteria and virus plus all NIOSH specified CBRN gases and vapours including nerve, blood, choking and blister agents and toxic industrial materials. Gives CE certified system when attached to mask.
<b>AMF12</b>	70010/18	NATO CBRN	Chemical, biological and radiological warfare agents in accordance with NATO requirements. Also certain toxic industrial chemicals such as chlorine, hydrogen sulphide, sulphur dioxide and organic vapours, with a boiling point of above 65°C.

FM53 Single Filter Port Mask (CE Certified)	
Description	Part Number
FM53 CE Mask RH LRG	72501/21
FM53 CE Mask RH MED	72501/23
FM53 CE Mask RH SML	72501/25
FM53 CE Mask RH XS	72501/27
FM53 CE Mask LH LRG	72501/22
FM53 CE Mask LH MED	72501/24
FM53 CE Mask LH SML	72501/26
FM53 CE Mask LH XS	72501/28

FM53 Twin Filter Port Mask (CE Certified)	
Description	Part Number
FM53 CE Mask Twin Port LRG	72501/29
FM53 CE Mask Twin Port MED	72501/30
FM53 CE Mask Twin Port SML	72501/31
FM53 CE Mask Twin Port XS	72501/32

## Approvals

FM53 IS CE CERTIFIED TO THE EUROPEAN PPE DIRECTIVE 89 / 686 / EEC BSI, CERTIFICATE NUMBER 553554

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