

# M53

ONE MASK, ALL MISSIONS.



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Based on the US Government M50/ JSGPM (Joint Services General Purpose Mask) Program, the 53-Series Protective Mask was specifically developed to meet the unique requirements of Special Operations Units. The 53-Series Protective Mask was developed to counter the multiple threats encountered on the modern battlefield, war on terrorism and peace keeping operations around the world. It provides excellent protection against traditional chemical and biological warfare agents, select Toxic Industrial Materials (TIMs) and particulate matter including radioactive dust.

The M53 will function as a conventional negative pressure mask as well as with a range of SCBA (Self Contained Breathing Apparatus) and PAPR (Powered Air Purifying Respirator). This is achieved without the need to remove or change any components. CCBA (Closed Circuit Breathing Apparatus) capability is provided with an exhalation valve adapter.

## Key Features

- The flexible, panoramic eyepieces minimize visual stress and maximizes field of view; provides ballistic protection and scratch resistance
- Vision correction assembly for prescription lenses
- 6 point skull cap head harness with low profile pre-adjusted brow and temple straps
- Fail safe, high flow hydration system connects to hydration bladders and canteens



- The most operationally flexible mask
  - The Valve Cassette Assembly (VCA) provides the unique capability to use the 53-Series Protective Mask with a variety of PPE (Personal Protective Equipment) without the need to remove or change any components.
- The 53-Series mask is operational in the following modes:
- **APR** (Air Purify Respirator)- A negative pressure mask using NATO thread filters
  - **SCBA** (Self Contained Breathing Apparatus)
  - **PAPR** (Powered Air Purifying Respirator)
  - **CCBA** (Closed Circuit Breathing Apparatus)
  - Combination SCBA and PAPR Apparatus

## Operational Flexibility

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## Operator Protection and Comfort

- The unique chlorobutyl/silicone blend face piece material ensures the mask is not only high in protection but also provides a better seal and is more comfortable to wear for extended periods
- Flexible polyurethane lens minimizes eye stress and maximizes field of view
- The lens provides improved ballistic protection as well as excellent scratch resistance
- Additional outserts are available to provide sunlight and laser protection
- A clear outsert is also offered for additional scratch protection in extreme environments and blue blocker to reduce haze while also improving overall ballistic protection
- The harness and buckles provide improved comfort and compatibility with ballistic helmets and communication gear
- New reflex seal provides high levels of protection and comfort
- Available in 4 sizes and interchangeable silicone nose cup for custom fit
- Right- or left-handed which provides the best cheek-to-stockweld available on the market



- Equipped with a standard Electronic Communications Port (ECP) for radio and voice amplification interface
- Internal microphone assembly offers enhanced speech performance
- Low profile, exterior mounted amplifier is available for inter-team communication
- 2-pin pass-through allows for simple integration with a variety of off-the-shelf communications devices

## Communications

**M53**+General Purpose NBC filter configuration

**M53**+Particulate Particulate and CS/CN Protection

## Filtration

# M53 Mask Specifications

## CBRN Agent Resistance

Mustard (H)	Greater than 24 Hours
Sarin (GB)	
Soman (GD)	
VX	
Laboratory Protection Factor performance (Sodium chloride)	Greater than 10,000

## Breathing Performance (excluding filter)

Re-breathing CO <sub>2</sub>	0.8%
Inhalation Resistance at:	
85 l/Min	15 mm WG
160 l/min	32 mm WG
Exhalation resistance negative pressure mode:	
85 l/min	15 mm WG
160 l/min	30 mm WG
Exhalation resistance positive pressure mode:	40 mm WG

## Weight

M53 mask (excluding filter)	1.6 lbs.
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## Field of view

Visual field Score - NIOSH CBRN standard	96
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## Materials used

M53 Mask Visor	Flexible polyurethane
M53 Mask Facepiece	Chlorobutyl/Silicone Rubber

## Hydration

Drinking Flow Rate	>230 ml/min
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The M53 respirator falls within the definition of Significant Military Equipment in the United States Munitions List, International Traffic in Arms Regulations and may only be supplied outside of the United States of America to customers who are licensed by the US Department of State, Directorate of Defense Trade Controls.



GR00326-08a