



**| METADURE |**  
Parts and Sales



Product Catalogue

**GAS MASKS**



## ABOUT US

**Metadure Parts & Sales Inc.** has been a trusted supplier to the US Dept. of Defense for more than 65 years with its specialized military ground support equipment. Metadure manufactures Ground Support Equipment that supports military aircraft used by U.S. and NATO forces. This includes trailers for the UALS (Universal Ammunition Loader System), Nitrogen, Oxygen and Hydraulic Fluid servicing equipment.

**Metadure Parts & Sales Inc.** has built a strong customer base, including global defense market leaders namely, Lockheed Martin, Northrop Grumman, Sikorsky, Bell Helicopters, SAIC, General Dynamics, L-3 Communications and others.

**Metadure Defense & Security LLC** is a subsidiary of Metadure Parts & Sales Inc., based on a strategic partnership with Astra Dynamics Inc., a high tech defense and security corporation.





## Contents

<b>1</b>	MILITARY GAS MASK - MGM 165	05
<b>2</b>	MILITARY GAS MASK - MGM 170	07
<b>3</b>	MILITARY GAS MASK - MGM 1650	09
<b>4</b>	MILITARY GAS MASK - MGM 1700	11
<b>5</b>	MILITARY GAS MASK - MGM 1750	13
<b>6</b>	COMMUNICATION GAS MASK - MGM 1800	15
<b>7</b>	FILTER CARTRIDGE – MFC 2000	18
<b>8</b>	FILTER CARTRIDGE – MFC 2500	20



# METADURE

Parts and Sales



## INTRODUCTION

In response to an increasingly challenging geopolitical environment, Metadure has recently introduced a line of full face gas masks effective enough to wear the Metadure name.

Metadure has received inquiries from companies and nations around the world looking to source affordable, high quality gas masks to be utilized during civil unrest to protect soldiers and/or citizens from a potential aggressor. Consequently, Metadure has worked diligently to develop a dependable new line of gas mask products.

Please be informed that we now carry a line of full face gas masks and filters designed for both Civil and Military applications and are proud to inform you that our fully tested, top of the line, single canister, **NATO** compliant, **NIOSH** approved, CBRN combination military-grade filter cartridge is **4155STANAG** compliant and has been tested to **U.S. MIL-STD-282**. It actually outperforms the Mil requirements for particulate penetration of CBRN respirators. In keeping with our heritage as a trusted military defense company, and unlike other companies that offer gas masks, we only offer military grade filters that provide protection in both military and civil environments. We believe that our "dual-use" approach is most appropriate considering the potential for known and unknown hazardous threats for civil unrest that the world has witnessed in recent years. Metadure full face gas masks are modeled after military-issue gas masks for maximum effectiveness; however, they have been priced to make them a top value for worldwide civilian use.

### **SPECIAL NOTE FOR GAS MASK BUYERS:**

Please be aware that the Internet is currently flooded with gas masks that are surplus, non-compliant, or expired. They may be untested, uncertified or unsafe for the user. Yours can be confident the Metadure gas masks are manufactured in strict compliance to precise Metadure specifications. Certificates of Conformance (C of C) will be provided with all shipments of our masks and filters.



**METADURE**  
Parts and Sales

## MILITARY GAS MASK - MGM 165





## Features of Full Face Gas Mask

- A. This full face mask can effectively resist harmful, toxic gas and steam, toxic particles or a mixture of radioactive particles, bacterium, virus;
- B. Unique spherical design, anti-fog lens, the vision rate reaches above 99%, works well under any severe environment.
- C. Made from natural silicone, soft and comfortable, hypoallergenic, providing extended shelf life.
- D. The outside surface of the lens is processed with the most advanced hardening technique in the world; the service life can be used for many times that of common protective masks.
- E. Good impact resistance.
- F. Single Canister use with EN148 connector.
- G. Spherical shaped design for optimal vision rate.

## Technical Data

1. Anti-Cyanogen chloride time:  $\geq 30$  minutes at 30L/min, 1.5mg/L and 80%-80%RH
2. Oil mist penetration coefficient:  $\leq 0.005\%$  at 30L/min.
3. Inhalation resistance:  $\leq 196$  pa at 30L/min.
4. Exhalation resistance:  $\leq 98$  pa
5. Visual field: total  $>99\%$ , binocular visual field  $>92\%$
6. Weight: 300g
7. Using Time: Dependent on filters used
8. Material: Medical grade, hypoallergenic silicone gel
9. Storage life: 5 years
10. Color: Black/Gray

## Components Introduction:

- Adjustable headband
- Polycarbonate visor
- Silicone mask
- Canisters





**METADURE**  
Parts and Sales

## MILITARY GAS MASK - MGM 170

MILITARY GAS MASK  
MGM 170





## Features of Full Face Gas Mask

- A.** This full face mask can effectively resist harmful, toxic gas and steam, toxic particles or a mixture of radioactive particle, bacterium, virus;
- B.** Unique columnar design, anti-fog lens, the vision rate reaches above 80%, works well under any severe environment.
- C.** Made from natural silicone, soft and comfortable, hypoallergenic, providing extended shelf life.
- D.** The outside surface of the lens is processed with the most advanced hardening technique in the world; the service life can be used for many times that of common protective masks.
- E.** Good impact resistance.
- F.** Single Canister use with EN148 connector.
- G.** Columnar shaped design for optimal vision rate.

## Technical Data

1. Anti-Cyanogen chloride time:  $\geq 30$  minutes at 30L/min, 1.5mg/L and 80%-80%RH
2. Oil mist penetration coefficient:  $\leq 0.005\%$  at 30L/min.
3. Inhalation resistance:  $\leq 196$  pa at 30L/min.
4. Exhalation resistance:  $\leq 98$  pa
5. Weight: 300 g
6. Using Time: Dependent on filters used
7. Visual field: total  $>92\%$ , binocular visual field  $>80\%$
8. Material: Medical grade, hypoallergenic silicone gel
9. Storage life: 5 years
10. Color: Yellow, Black, Red, Blue

## Components Introduction:

- Adjustable headband
- Polycarbonate visor
- Silicone mask
- Canister







**METADURE**  
Parts and Sales

## MILITARY GAS MASK - MGM 1650



MILITARY GAS MASK  
MGM 1650



## Features of Full Face Gas Mask

- A.** This full face mask can effectively resist harmful, toxic gas and steam, toxic particles or a mixture of radioactive particle, bacterium, virus;
- B.** Unique spherical design, anti-fog lens, the vision rate reaches above 87%, works well under any severe environment.
- C.** Made from natural silicone, soft and comfortable, hypoallergenic, providing extended shelf life.
- D.** The outside surface of the lens is processed with the most advanced hardening technique in the world; the service life can be used for many times that of common protective masks.
- E.** Good impact resistance.
- F.** Double filter design for extended service time, with EN148 connectors.
- G.** Cone shaped design for optimal vision rate.

## Technical Data

- 1. Anti-Cyanogen chloride time:  $\geq 30$  minutes at 30L/min, 1.5mg/L and 80%-80%RH
- 2. Oil mist penetration coefficient:  $\leq 0.005\%$  at 30L/min.
- 3. Inhalation resistance:  $\leq 196$  pa at 30L/min.
- 4. Exhalation resistance:  $\leq 98$  pa
- 5. Visual field: total  $>87\%$ , binocular visual field  $>86\%$
- 6. Weight: 300g
- 7. Using Time: Dependent on filters used
- 8. Material: Medical grade, hypoallergenic silicone gel
- 9. Storage life: 5 years
- 10. Color: Black/Gray

## Components Introduction:

- Adjustable headband
- Polycarbonate visor
- Silicone mask
- Canisters





**METADURE**  
Parts and Sales

## MILITARY GAS MASK - MGM 1700



MILITARY GAS MASK  
MGM 1700



## Features of Full Face Gas Mask

- A. This full face mask can effectively resist harmful, toxic gas and steam, toxic particles or a mixture of radioactive particle, bacterium, virus;
- B. Unique spherical design, anti-fog lens, the vision rate reaches above 87%, works well under any severe environment.
- C. Made from natural silicone, soft and comfortable, hypoallergenic, providing extended shelf life.
- D. The outside surface of the lens is processed with the most advanced hardening technique in the world, the service life can be used for many times that of common protective masks.
- E. Good impact resistance.
- F. Single Canister use with EN148 connector.
- G. Cone shaped design for optimal vision rate.

## Technical Data

1. Anti-Cyanogen chloride time:  $\geq 30$  minutes at 30L/min, 1.5mg/L and 80%-80%RH
2. Oil mist penetration coefficient:  $\leq 0.005\%$  at 30L/min.
3. Inhalation resistance:  $\leq 196$  pa at 30L/min.
4. Exhalation resistance:  $\leq 98$  pa
5. Visual field: total  $>87\%$ , binocular visual field  $>86\%$
6. Weight: 300g
7. Using Time: Dependent on filters used
8. Material: Medical grade, hypoallergenic silicone gel
9. Storage life: 5 years
10. Color: Black/Gray

## Components Introduction:

- Adjustable headband
- Polycarbonate visor
- Silicone mask
- Canisters





**METADURE**  
Parts and Sales

## MILITARY GAS MASK - MGM 1750



MILITARY GAS MASK  
MGM 1750



## Features of Full Face Gas Mask

- A.** This full face mask can effectively resist harmful, toxic gas and steam, toxic particles or a mixture of radioactive particle, bacterium, virus;
- B.** Unique spherical design, anti-fog lens, the vision rate reaches above 99%, works well under any severe environment.
- C.** Made from natural silicone, soft and comfortable, hypoallergenic, providing extended shelf life.
- D.** The outside surface of the lens is processed with the most advanced hardening technique in the world, the service life can be used for many times that of common protective masks.
- E.** Good impact resistance.
- F.** Double filter design for extended service time, with EN148 connectors.
- G.** Cone shaped design for optimal vision rate.

## Technical Data

1. Anti-Cyanogen chloride time:  $\geq 30$  minutes at 30L/min, 1.5mg/L and 80%-80%RH
2. Oil mist penetration coefficient:  $\leq 0.005\%$  at 30L/min.
3. Inhalation resistance:  $\leq 196$  pa at 30L/min.
4. Exhalation resistance:  $\leq 98$  pa
5. Visual field: total  $>99\%$ , binocular visual field  $>92\%$
6. Weight: 340g
7. Using Time: Dependent on filters used
8. Material: Medical grade, hypoallergenic silicone gel
9. Storage life: 5 years
10. Color: Black, Blue

## Components Introduction:

- Adjustable headband
- Polycarbonate visor
- Silicone mask
- Canisters





**METADURE**  
Parts and Sales

## COMMUNICATION GAS MASK - MGM 1800



The Metadure MGM-1800 Anti-gas communication system is the ideal choice for person-to-person and remote radio communications. The MGM-1800 features a face piece mounted transceiver that can be used alone or in combination with a radio cable interface attached to a two-way radio, making it ideal for a variety of response situations including firefighting, disaster response, maintenance operations and manufacturing settings. The MGM-1800 system provides real-time communications with a push-to-talk feature while also being able to interface with a user's existing radio, making it a perfect, simple to operate communication solution.

COMMUNICATION  
GAS MASK  
MGM 1800



**METADURE**  
Parts and Sales

## Communication Gas Mask Features

- Anti-gas Mask
- Wireless person-to-person communications
- Optional portable radio communications
- Easily toggle from wireless to portable radio modes
- Push-to-talk design for suppression
- Easy to install, Easy to connect
- Optional hands-free VOX for HAZMAT scenarios
- Mounts easily to all existing full face masks
- Friendly gloved hand operation
- Water resistant
- Heat resistant
- Compatible with virtually all radios
- Runs off AAA batteries
- 15 Hour battery life

## Additional Mask Features

- A.** This full face mask can effectively resist harmful, toxic gas and steam, toxic particles or a mixture of radioactive particle, bacterium, virus;
- B.** Unique spherical design, anti-fog lens, the vision rate reaches above 87%, works well under any severe environment.
- C.** Made from natural silicone, soft and comfortable, hypoallergenic, providing extended shelf life.
- D.** The outside surface of the lens is processed with the most advanced hardening technique in the world, the service life can be used for many times that of common protective masks.
- E.** Good impact resistance.
- F.** Single Canister use with EN148 connector.
- G.** Cone shaped design for optimal vision rate.





## Technical Data

1. Anti-Cyanogen chloride time:  $\geq 30$  minutes at 30L/min, 1.5mg/L and 80%-80%RH
2. Oil mist penetration coefficient:  $\leq 0.005\%$  at 30L/min.
3. Inhalation resistance:  $\leq 196$  pa at 30L/min.
4. Exhalation resistance:  $\leq 98$  pa
5. Visual field: total  $>87\%$ , binocular visual field  $>86\%$
6. Weight: 950g
7. Working Temperature:  $-20\text{ C}^{\circ}$  to  $+60\text{ C}^{\circ}$
8. Storage Temperature Range:  $-40\text{ C}^{\circ}$  to  $+70\text{ C}^{\circ}$
9. Protection Grade: IP66 – IP67
10. Microphone conversation delay: 0.55s
11. Push-to-talk switch life: Approximately 1,000,000 times
12. Using Time: Dependent on filters used
13. Material: Medical grade, hypoallergenic silicone gel
14. Storage life: 5 years
15. Color: Black/Gray



## Technical Data of Directional Sound Amplifier

1. Standard Power: 1 w
2. Maximum Output Power: 2 w
3. Frequency Response: 300 Hz – 3400 Hz
4. Battery Voltage: DC3V
5. Battery Type: No. 7 battery
6. Amplifying Work Current: 100-500m
7. Standby Current: less than 10 mA
8. Speaker impedance: 8  $\Omega$
9. Speaker Sensitivity: 94 + 3 dB
10. Pick up: Capacitor
11. Frequency Response: 200 – 20000 Hz
12. Output Impedance: 1k
13. Output Sensitivity: 98 + 2 dB



## Components Introduction:

- Adjustable headband
- Polycarbonate visor
- Silicone mask
- Communication System





## FILTER CARTRIDGE – MFC 2000



This is a high performing single canister, **NATO** compliant, **NIOSH** approved, CBRN combination military-grade filter cartridge that is **4155STANAG** compliant and has been tested to **U.S. MIL-STD-282** and outperforms the Mil requirements for particulate penetration of CBRN respirators. This filter is designed with superior activated carbon to provide superior protection against chemical and biological warfare agents like sarin and other nerve gases; mustard gas, cyanogen, arsine and phosgene; radioactive and highly toxic particles; aerosols and micro-organisms; bacteria and viruses. Many industrial gases (type A2B2E2K2P3R) in accordance with EN 141 such as: organic gases and vapors, inorganic gases and vapors such as chlorine, hydrogen cyanide, hydrogen sulphide, organic and inorganic acids, such as formic acid, sulphur dioxide, hydrogen fluoride and hydrogen chloride. Warfare and terrorism agents such as anthrax, sarin, smallpox, mustard gas, toxic smoke and fog as well as riot control agents like CN and CS tear gases. In summary, it provides superior protection against most known biological and chemical agents.



## BASIC CHARACTERISTICS:

- Standard: EN 141 & (US) MIL-STD-282
- Thread Connection: EN 148
- Particle efficiency: > 99.95% of particles of 0.3 um at
- 30 lpm Weight: 250g
- Dimensions: 110\*92mm
- Color: Black
- Housing: Coated aluminum
- Absorbent: Activated carbon, ABEK-type
- Sealing caps: Polyethylene
- Adhesive: Hot melt



## STORAGE CONDITIONS:

- Temperature: -10 degrees C to +60 degrees C
- Relative humidity: < 80 %
- Shelf life: 5 years after date of manufacturing

**USE:** Organic gases and vapors, inorganic gases and vapors, toxic smoke and fog, acid gases and vapors, ammonia and ammonia derivatives, solid and liquid particles.

**LIMITATIONS FOR USE:** Do not use where the oxygen level in the atmosphere is less than 18%. Also, do not use with organic gases and vapors with a boiling point below 65 degrees C.

## KEY FEATURES:

- Third party tested against chemical warfare gases
- Excellent protection against Sarin (and its surrogate DMMP)
- Particulate filter is over 99.95% efficient against all particulates and is appropriate for protection against all biological aerosols.
- Manufactured with sealed caps providing solid 5-year shelf life.
- Used with full face mask with EN 148 connections.
- Superior activated carbine.
- NIOSH approved.



## FILTER CARTRIDGE – MFC 2500



This is a high performing single canister, **NATO** compliant, **NIOSH** approved, CBRN combination military-grade filter cartridge that is **4155STANAG** compliant and has been tested to **U.S. MIL-STD-282** and outperforms the Mil requirements for particulate penetration of CBRN respirators. This filter is designed to protect against chemical and biological warfare agents like sarin and other nerve gases; mustard gas, cyanogen, arsine and phosgene; radioactive and highly toxic particles; aerosols and micro-organisms; bacteria and viruses. Many industrial gases (type A2B2E2K2P3R) in accordance with EN 141 such as: organic gases and vapors, inorganic gases and vapors such as chlorine, hydrogen cyanide, hydrogen sulphide, organic and inorganic acids, such as formic acid, sulphur dioxide, hydrogen fluoride and hydrogen chloride. Warfare and terrorism agents such as anthrax, sarin, smallpox, mustard gas, toxic smoke and fog as well as riot control agents like CN and CS tear gases. In summary, it provides protection against most known biological and chemical agents.



## BASIC CHARACTERISTICS:

- Standard: EN 141 & (US) MIL-STD-282
- Thread Connection: EN 148
- Particle efficiency: > 99.95% of particles of 0.3 um at
- 30 lpm Weight: 250g
- Dimensions: 110\*92mm
- Color: Black
- Housing: Coated aluminum
- Absorbent: Activated carbon, ABEK-type
- Sealing caps: Polyethylene
- Adhesive: Hot melt

## STORAGE CONDITIONS:

- Temperature: -10 degrees C to +60 degrees C
- Relative humidity: < 80 %
- Shelf life: 5 years after date of manufacturing

**USE:** Organic gases and vapors, inorganic gases and vapors, toxic smoke and fog, acid gases and vapors, ammonia and ammonia derivatives, solid and liquid particles.

**LIMITATIONS FOR USE:** Do not use where the oxygen level in the atmosphere is less than 18%. Also, do not use with organic gases and vapors with a boiling point below 65 degrees C.

## KEY FEATURES:

- Third party tested against chemical warfare gases
- Excellent protection against Sarin (and its surrogate DMMP)
- Particulate filter is over 99.95% efficient against all particulates and is appropriate for protection against all biological aerosols.
- Manufactured with sealed caps providing solid 5-year shelf life.
- Used with full face mask with EN 148 connections.
- NIOSH approved.





# **METADURE**

**Parts and Sales**

## **Metadure**

165 Gazza Blvd.

Farmingdale, New York

11735 USA

Tel: (+1) 631-249-2141

Fax: (+1) 631-249-4546

Email: **metadure@aol.com**