Science. Applied to Life.™

3M™ Reusable Half Mask 7500 Series

Technical datasheet

Description

3M™ Reusable Half Mask 7500 Series have set a new standard in comfort. This facepiece was designed with the wearer in mind. Its soft sealing surface, along with the 3M™ Cool Flow™ Valve, enhances wearer comfort and face fit. Reduced breathing resistance helps to minimise heat build-up in the mask and increases your comfort.

Available in three sizes, all masks have the 3M™ bayonet connection system allowing connection to a broad range of twin lightweight filters or approved powered and supplied air systems to protect against gases, vapours and particulates depending on your individual needs.

Key Features

- Dual-mode head harness adjusts easily for standard or drop-down mode

Standards and approvals

These products have been tested to the relevant European Standards: 3M™ Reusable Half Mask, 7500 Series to EN 140:1998 for Half Masks, EN 12942:1998 + A2:2008 and EN 14594:2005 (with approved air delivery units). The Certificate and Declaration of Conformity available at the following website: www.3M.com\Respiratory\certs

Use

When properly fitted and operated, 3M™ Reusable Half Mask 7500 Series may be used:

With gas and vapour filters:

- 3M™ Gas and Vapour Filter 6000 Series may be used in concentrations of gases or vapours (types specified by 3M) up to 50 times the Occupational Exposure Limit (OEL) or 1000ppm (5000ppm for 6055), whichever value is lower
- 3M™ Gas and Vapour Filter A1+ Formaldehyde 6075 offers protection against organic vapour (as above) and 10ppm formaldehyde only
- 3M™ Gas and Vapour Filter 6000 Series should not be used to protect the wearer against a gas or vapour that has poor warning properties (smell or taste)

With particulate filters:

- 3M™ Particulate Filter P1 R 5911 may be used in concentrations of particulates up to 4 times OEL
- 3M™ Particulate Filters P2 R 5925, 2125 or 2128 may be used in concentrations of particulates up to 12 times OEL
- 3M™ Particulate Filters P3 R 5935, 2135, 2138, 6035 or 6038 filters may be used in concentrations of particulates up to 50 times OEL
- 3M™ Particulate Filters 2128 and 2138 filters may be used to protect against ozone up to 10 times OEL and offer relief from acid gases and organic vapours at levels below the OEL
- 3M™ Particulate Filter 6038 offers protection against 30ppm hydrogen fluoride and offers relief from acid gases and organic vapours at levels below the OEL

With powered air and supplied air systems:

- May be used in concentrations of particulate or gases and vapours 200 times OEL

Gas and Vapour/Combination Filters

Filter		Standard	Class	Hazard
6051 (06911) 6055 (06915)		EN 14387: 2004 +A1:2008	A1 A2	Organic vapours (b.pt. > 65°C)
6054		EN 14387: 2004 +A1:2009	K1	Ammonia and derivatives
6057		EN 14387: 2004 +A1:2010	ABE1	Combination organic vapours (b.pt. >65°C), inorganic and acid gases
6059		EN 14387: 2004 +A1:2011	ABEK1	Combination organic vapours (b.pt. >65°C), inorganic and acid gases and ammonia
6075		EN 14387: 2004 +A1:2012	A1 + formaldehyde	Organic vapours (b.pt. >65°C) and formaldehyde
6091		EN 14387: 2004 +A1:2013	A1P3 R	Organic vapours (b.pt. >65°C), and particulates
6092		EN 14387: 2004 +A1:2014	ABEK1P3 R + formaldehyde	Combination organic vapours (b.pt. >65°C), inorganic and acid gases, ammonia particulates and formaldehyde
6095		EN 14387: 2004 +A1:2015	A2P3 R	Organic vapours (b.pt. >65°C), and particulates
6096		EN 14387: 2004 +A1:2016	A1E1HgP3 R	Organic vapours, acid gases (b.pt. >65°C), mercury vapour, chlorine and particulates
6051i/6055i		EN 14387: 2004 +A1:2017	A1 A2 With 3M™ Service Life Indicator	Organic vapours (b.pt. > 65°C)

Particulate Filters

Filter		Standard	Class	Hazard
5911 5925(06925) 5935		EN 143:2000 / A1:2006	P1 R P2 R P3 R	Particulates (fine dusts and mists)
2125 2135		EN 143:2000 / A1:2006	P2 R P3 R	Particulates (fine dusts and mists)
2128 2138		EN 143:2000 / A1:2006	P2 R P3 R	Particulates, ozone and nuisance levels of organic vapours and acid gases
6035		EN 143:2000 / A1:2006	P3 R	Particulates (fine dusts and mists)
6038		EN 143:2000 / A1:2006	P3 R	Particulates, hydrogen fluoride at 30ppm, nuisance levels of organic vapours and acid gases

3M Breathing Tube Options

Breathing Tube	3M™ Versaflo™ Powered Air Turbo TR-602E / TR-802E	3M™ Air Supply Unit S-200+
BT-63 / BT-64	Yes	N/A
S-222	N/A	Yes

Use limitations

Before use, check the expiration date.

For other use limitations please refer to the User Information supplied with the products. These respirators do not supply oxygen. Do not use in oxygen deficient areas.*

Do not use for respiratory protection against atmospheric contaminants that have poor warning properties or are unknown or immediately dangerous to life and health (IDLH) or against contaminants, which generate high heats of reaction with chemical filters. (The 3M™ S-200+ Supplied-Air Respirator System can be used against contaminants with poor warning properties, subject to other use limitations). Do not misuse, alter, modify or repair this product.

Do not use with beards or other facial hair that prevent direct contact between the face and the edge of the respirator.

Do not use with unknown concentrations of contaminants.

Leave the work area immediately and check the integrity of the respirator and replace face mask if:

- Damage has occurred or is apparent.
- Breathing becomes difficult or increased breathing resistance occurs.
- Dizziness or other distress occurs.
- You taste or smell the contaminant or an irritation occurs.

Cleaning and storage

1. Disassemble by removing the filters/breathing tube (if applicable), head straps and other parts.

2. Clean and sanitise the mask (excluding filters) using 3M™ 105 Face Seal Cleaner or immersing in warm cleaning solution and scrubbing with a soft brush until clean. Parts may also be cleaned in a domestic washer. If necessary, wash the outside of the breathing hose carefully using warm water solution containing a mild detergent. Ensure the breathing hose connections are free from all dirt or debris that could prevent an effective seal with the blower.

3. Disinfect respirator by soaking in a solution of quaternary ammonium disinfectant or sodium hypochlorite (30ml household bleach in 7.5l of water) or other disinfectant.

4. Rinse in fresh, warm water and air-dry in non-contaminated atmospheres.

Water temperature should not exceed 50°C.
Do not use cleaning agents that contain lanolin or other oils.

Do not autoclave.

* 3M definition minimum 19.5% by volume oxygen

Sizes and weight

Small (7501)

Medium (7502)

Large (7503)

Approximate weight: 135 grams

Shelf life: 5 years from production date when stored at the storage conditions stated on the packaging.

*The shelf life as defined above remains an indicative and maximum data, subject to many external and non-controllable factors. It may never be interpreted as a warranty.

Component	Material
Face seal	Silicone rubber
Filter holder	Polybutylene terephthalate
Exhalation valve cover	Polybutylene terephthalate
Inhalation valve	Silicone rubber
Exhalation valve	Silicone rubber
Straps	Polyester/polyurethane
Head cradle	Polyethylene

Spare parts and accessories	Component
7580	Replacement strap
7581	Head harness assembly
7582	Inhalation valve
7583	Exhalation valve
7585F	Fabric head cradle
7586	Filter holder (includes valve)
501	Retainer for 5000 Series filters
603	Particulate filter platform
105	Face seal wipe

IMPORTANT NOTICE

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application. All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user. Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control. Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation. Respiratory Protection is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to respiratory contaminants. 3M offers advice on the selection of products, and training in the correct fitting and usage.

For more information on 3M products and services please contact 3M.

Personal Safety Division
3M Centre
Cain Road, Bracknell
Berkshire RG12 8HT

www.3M.eu/safety