

# 3M™ Cartridge Filter 6096 A1E1HgP3

## Technical Data Sheet

### Description

3M™ Organic Vapour, Sulphur dioxide, Mercury and Particulate Filter 6096 is one of the 3M™ 6000 series gas/vapour cartridges. These are used in combination with 3M™ Half and Full Face Respirators.

### Features

- 3M high performance activated carbon for effective filtration
- 3M™ Bayonet Connection System ensures precise and secure locking
- Low profile and well balanced twin filter design
- Suitable for use with 3M™ Half Face Respirators 6000/6500QL/7500 Series and Full Face Respirators 6000/FF-400 Series

### Specifications

- Filter Rating: A1E1HgP3
- Provides protection against organic vapours (boiling point > 65°C)\*, inorganic gases, phosphine and mercury vapour.
- These filters have a maximum use time of 50 hours against mercury vapour.
- May be used for low levels of phosphine (e.g. up to 15ppm Time Weighted Average on a full facemask or levels to 3ppm TWA on a half facemask).

Service life against phosphine is expected to be at least 40 hours for maximum concentrations less than 60 ppm phosphine and at a normal breathing rate. Cartridges must be replaced earlier if taste, smell or irritation is noted, or if the cartridge is physically damaged.

- Also provides protection against dusts, mists and fumes – all particulates.
- Weight: 130 g per pair of filters

### Hazards/Tasks

- For protection when working with a variety of chemicals such as organic vapours (boiling point > 65°C)\*, sulphur dioxide, phosphine and mercury vapour.
- Used during oil refinery maintenance and shutdowns
- Also in health care when removing amalgam, or wherever mercury vapour may exist e.g. spillages

\* Not to be used when spraying isocyanate based paints



### Materials

The following materials are used in this product:

- Filter Body - Polystyrene
- Gas/Vapour Filter element - Activated Carbon
- Particulate Filter Element - Fibreglass

### Standards

- Complies with AS/NZS 1716:2012 (Respiratory protective devices).
- Use in accordance with AS/NZS 1715 (Selection, use and maintenance of respiratory protective equipment).

### Fitting Instructions

Only new, unused filters from their original packaging should be fitted to your facepiece. Ensure that both filters are of the same type and class.

- Align 6096 filter notch with facepiece 3M logo and push together.
- Turn filter 1/4 turn clockwise to stop.  
Discard and replace both filters at the same time.
- To remove filter, turn 1/4 turn anticlockwise

### Disposal

Dispose in accordance with local and national regulations appropriate to the contaminants captured

Low boiling point organic compounds are capable of migrating through 3M 6096 filters when not in use.

### Technical Specifications

When selected and used in accordance with the standard (AS/NZS 1715) and for the contaminants specified, this filter is capable of providing the following protection:

#### With 3M Series Half Face Respirators:

- For airborne concentrations of gases/vapours up to 10 x the Workplace Exposure Standard (WES) or 1000 ppm, whichever is the lower and exposures less than the relevant IDLH (Immediately Dangerous to Life and Health) value.
- For particles up to 10 x WES

### With 3M 6000/FF-400 Series Full Face Respirators:

- For airborne concentrations of gases/vapours up to 50 x WES or 1000 ppm, whichever is the lower and exposures less than the relevant IDLH (Immediately Dangerous to Life and Health) value.
- For particles up to 100 x WES

## Warning and Limitations

Particular attention should be given to warning statements where indicated. Proper selection, fit, training, use and appropriate maintenance are essential in order for the product to help protect the wearer from certain airborne contaminants. Failure to follow all instructions on the use of these respiratory protection products and/or failure to properly wear the complete product during all periods of exposure may adversely affect the wearer's health, lead to severe or life threatening illness or permanent disability.

Always be sure that the complete product is:

- Suitable for the application;
- Fit tested and fitted correctly;
- Worn during all periods of exposure;
- Replaced when necessary.

For suitability and proper use follow local regulations, refer to all information supplied or contact an occupational hygienist, safety professional or 3M representative on the Tech Assist Helpline - Australia 1800 024 464 or New Zealand 0800 364 357.

Use this respirator system strictly in accordance with all User Instructions:

- Do not submerge the filters in liquid.
- Do not use in atmospheres containing less than 19.5% oxygen. (3M definition. Individual countries may apply their own limits on oxygen deficiency. Seek advice if in doubt).
- Do not use these products in pure oxygen or oxygen enriched atmospheres.
- Do not use for respiratory protection against atmospheric contaminants and concentrations which have poor warning properties or are unknown or immediately dangerous to life and health (IDLH) or against contaminants/concentrations which generate high heats of reaction with chemical filters.
- Do not use in airborne concentrations above those specified in **Technical Specifications**.
- Leave the contaminated area immediately if:
  - o Any part of the system becomes damaged.
  - o Airflow to the face piece decreases or stops.
  - o Breathing becomes difficult or increased breathing resistance occurs.
  - o Dizziness or other distress occurs.
  - o You smell or taste contaminants or irritation occurs.
- Never alter, modify or repair this device.
- These products do not contain components made from natural rubber latex.

**NOTE:** Save all user instructions full continuing reference.

## Shelf Life, Storage and Transportation

Shelf life of the unopened product is five (5) years from date of manufacture when stored in temperature range -20°C to +25°C and at less than 80% relative humidity. Average storage conditions may exceed 25°C/80%RH for limited periods. They can reach 38°C/85%RH provided this is for no more than 3 months of the shelf life of the product.

End of shelf life date is marked on the product packaging. Before initial use, always check that the product is within the stated shelf life. When storing or transporting this product use original packaging provided.

Storing the filters in an airtight container will help prolong the service life by reducing exposure to moisture and contaminants.

As per AS/NZS1715:2009 Section 4.2.5.3, "All classes of gas filter shall be discarded no longer than six months after opening, irrespective of the number of periods of use".

## Additional Information

### 3M™ Organic Vapour Monitor 3500+ and 3501+

3M™ Monitors are simple and effective personal sampling badges. The monitor captures a wide range of airborne organic vapours, enabling a laboratory to analyse and identify the type and level of exposure to the worker.

The 3M™ Organic Vapor Monitors 3501+ higher sampling rate badge is for low concentrations or short term exposure limit (STEL) sampling. It is designed to measure time weighted-average (TWA) or short term exposure limit (STEL) exposure to volatile organic chemicals to demonstrate compliance with Occupational Exposure Limits (OELs).

For more information, please contact 3M and request a copy of the 3M™ Organic Vapour Monitor 3500+ and 3501+ Tech Data Sheet.



### 3M™ Select & Service Life Software

3M have designed software to help you estimate how frequently certain 3M™ Gas and Vapour Cartridges should be replaced. You can then use this information to establish a cartridge change schedule. You will firstly need information on the chemical contaminants in your working environment

The exposure monitoring data may be entered into the 3M Service Life software at [www.3M.com/sls](http://www.3M.com/sls) to estimate the service life of 3M gas/vapor cartridges.

**For more information contact your 3M representative or call the 3M TechAssist Helpline:**

**3M Australia:** 1800 024 464

**3M New Zealand:** 0800 364 357

## Ordering Information

3M Code	Model #	Description
70071695228	6096	A1E1HgP3 Organic Vapour/ Acid Gas/Mercury/Chlorine/ Articulate Cartridge

## Important Notice

To the extent permitted by law, 3M shall not be liable for any loss or damage including any loss of business, loss of profits, or for any indirect, special, incidental or consequential loss or damage arising from reliance upon any information herein provided by 3M. The user is responsible for determining the suitability of the product for its intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.



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