

3M™ Multi-gas Cartridge Filter 6099 A2B2E2K2HgFormP3

Technical Data Sheet

Description

3M™ Organic Vapour Filter 6099 is one of the 3M™ 6000 series gas/vapour cartridges. The 6099 filters are used in combination with 3M™ Full Face bayonet respirators only.

Features

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

Specifications

- Filter Rating: A2B2E2K2HgFormP3
- Provides protection against organic vapours (boiling point > 65°C)*, inorganic & acid gases, ammonia and methylamine, mercury vapour and formaldehyde.
- These filters have a maximum use time of 50 hours against mercury vapour
- Not to be used when spraying isocyanate based paints
- Also provides protection against dusts, mists and fumes – all particulates.
- Weight: 472g per pair of filters

Hazards/Tasks

- For protection when working with a variety of chemicals such as organic vapours (boiling point > 65°C), chlorine, hydrogen chloride, sulphur dioxide, hydrogen fluoride, hydrogen sulphide, ammonia, methylamine, mercury vapour and formaldehyde.



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 1715:2009 (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 6099 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.

Compatible facepieces



6000 Full Face



FF-400

* Not to be used when spraying isocyanate based paints

Low boiling point organic compounds are capable of migrating through 3M 6099 filters when not in use.

Technical Specifications

When selected and used in accordance with the standard (AS/NZS 1715:2009) and for the contaminants specified, this filter is capable of providing the following protection:

- With a 3M 6000/FF-400 Series Full Face Respirator: for concentrations of organic vapours (boiling point >65°C), inorganic & acid gases, ammonia and methylamine, formaldehyde at levels up to 100 x the relevant Workplace Exposure Standard or 5000 ppm whichever is lower, for mercury vapour at levels up to 50 x the relevant workplace exposure standard or 1000ppm which ever is lower: and exposures less than the relevant IDLH (Immediately Dangerous to Life and Health) value and 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 Customer Services - Australia 1300 363 565 - New Zealand 0800 252 627.

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 for 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 -10°C to +50°C and at less than 90% relative humidity.

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 reduce exposure to the work environment and help prolong the life of the equipment.

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).

3M™ Formaldehyde Monitor 3721+

This monitor is designed for measuring exposures to formaldehyde such as those in the chemical, pulp and paper, foundry and textiles industry. This monitor uses an impregnated filter to convert formaldehyde to a stable bisulfite addition product.

The airborne concentrations measured can be used as part of a risk management process to institute suitable controls, including assisting in determination of the type and service life of respiratory equipment appropriate to the contaminants (according to AS/NZS1715).

For more information, please contact 3M and request a copy of the 3M™ Organic Vapour Monitor 3500+, 3501+ and 3721+ 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 to estimate the service life of 3M gas/vapour cartridges.

For more information contact your 3M representative.



QR-CAT-SLS

For assistance in determining 3M Bayonet gas/vapour cartridge breakthrough and filter change schedules for certain gas/vapour contaminants visit the free

3M Select and Service Life (SLS) Software | www.3m.com/sls

Ordering Information

SAP ID	Legacy ID	Availability		Model #	Description
		AUS	NZ		
7100104327	70071695210	•	•	6099	3M™ MultiGas, A2B2E2K2HgP3 + Formaldehyde Filter 6099, 32 ea/Case. Organic Vapour >65 degrees celsius boiling point), Acid Gas, Ammonia, Mercury, formaldehyde, HF and Particulate Filter. For use with full facepieces only

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. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.

SCAN OR CLICK FOR:



QR-CAT-RR
Reusable
Respirator
Catalogue Section



QR-CAT-FULL
Full Personal
Safety Division
Catalogue

Technical Statement

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards. Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.



3M Australia Pty Ltd
Personal Safety Division
Bldg A, 1 Rivett Road
North Ryde NSW 2113
Customer Service: 1300 363 565
Email: 3msupport.safety.au@mmm.com
Web: www.3M.com/au/ppesafety

3M New Zealand Ltd
Personal Safety Division
94 Apollo Drive, Rosedale
Auckland 0632
Customer Service: 0800 252 627
Email: 3msupport.safety.nz@mmm.com
Web: www.3M.com/nz/ppesafety

3M is a trademark of 3M Company.
© 3M 2026. All rights reserved.