Technical Datasheet

3M™ Gas and Vapour Filter 6098, AXP3

Description

The 3M™ Gas and Vapour filter 6098, AXP3 can be used where protection against low boiling point (<65^{0}C) organic compounds and particulates is required. It is designed to be used with 3M Full Face respirators only.

Main Features

- Good balance of weight on face
- Excellent field of vision as a result of unique trapezoidal shape
- Bayonet fitting ensures precise & safer locking to 3M Full Face respirators

Applications

The 3M Gas and Vapour Filter 6098 can be used in industries where workers will be exposed to low boiling point (<65^{0}C) organic compounds such as Methanol, Acetone or Acrolein. A more complete list of compounds is contained in the Warnings and Use Limitations section. Comes with a P3 particle filter integrated with the cartridge to provide protection from all particulates including highly toxic materials.

Storage and Transportation

Do not store outside the temperature range -10°C to +50°C or with humidity above 90%. When stored as stated, the expected shelf life of the product is 5 years from date of manufacture. End of shelf life (use-by) date is marked on the product and packaging. The original packaging is suitable for transporting the product.

Materials

The following materials are used in this product:

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

Standards

This product meets the requirements of AS/NZS 1716:2003, Respiratory Protective Devices, as a Type AXP3 gas and vapour / particulate filter.

These respirators have been produced to comply with the requirements of the Australian /New Zealand Standard AS/NZS 1716:2003 under an agreed production certification scheme operated during manufacture in accordance with the SAI Global StandardsMark programme.

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.

a) Align 6098 filter notch with facepiece 3M logo and push together.
b) Turn filter 1/4 turn clockwise to stop.

Discard and replace both filters at the same time.

c) To remove filter, turn 1/4 turn anticlockwise

Disposal

Contaminated products should be disposed of as hazardous waste in accordance with national regulations.

The 3M Gas and Vapour Filter 6098 is a SINGLE USE only filter and should be discarded after use. Low boiling point organic compounds are capable of migrating through 3M 6098 filters when not in use. Re-use of 6098 filters may expose the wearer to contaminants previously collected in the filter.

DO NOT immerse product in water, detergent, cleaning fluids etc. DO NOT clean the filter using compressed air.

Warnings and Use limitations

Limitations on the use of these filters may differ among countries. 3M recommends the following should be applied in the absence of specific recommendations in Australia and New Zealand.

Low boiling point organic compounds against which the 3M™ Gas and Vapour filter 6098, AXP3 may be used are divided into groups:

Group 1	Low boiling point organic vapours with an Exposure Standard (ES) of less than or equal to 10ppm or which have a short service life.
Group 2	Low boiling point organic vapours with an ES greater than 10ppm

Against compounds of groups 1 and 2, AX filters complying with AS/NZS 1716 can be used up to the maximum concentrations shown in the table below, **OR** 50 x ES (whichever is the lower concentration)

Group	Maximum Concentration (ppm)	Maximum Usage Time (minutes)
Group1	100 ppm	40 mins
Group 1	500 ppm	20 mins
Group 2	1000 ppm	60 mins
Group 2	5000 ppm	20 mins

- During one 8 hour shift, repeated use of an AX filter is permitted, provided the maximum usage time shown in the table above is not exceeded. The filter **SHOULD NOT** be used on a second shift even if these maximum usage times are not exceeded.
- The use of AX filters against mixtures of low boiling point organic compounds or mixtures of low boiling point compounds and other organic compounds is not permitted as one or more of these compounds may be desorbed from the filter.
- AX filters may be used as A2 filters ONLY if no low boiling point organic compound is present. A1 or A2 filters are not to be used against low boiling point organic compounds.

Some examples of Low Boiling point organic compounds are below:

Group 1	Group 2
Acetaldehyde	n-Pentane
Propanal	Acetone
1,3-Butadiene	Bromoethane
3-Chloro-1-propene	Butane
Diethyl Amine	Chloroethane
Dimethyl ether	Cyclopentadiene
1,1-Dimethylethylamine	Dibromodifluoromethane
Ethanethiol	Diethyl ether
Iodomethane	Dimethyloxymethane
Methanol	Ethylformate
2-Propenal (Acrolein)	Methyl Acetate
Vinyl Chloride	Methyl propane

Proper selection, 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;
- 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 3M Australia 1800 024 464, 3M New Zealand 0800 364 357.

• Do not submerge the filters in liquid.
• Do not use these products in flammable or explosive atmospheres.
• 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 for respiratory protection against atmospheric contaminants/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 these products when working with open flames or liquid metal droplets.
• Do not use these products in pure oxygen or oxygen-enriched atmospheres.
• Do not use in concentrations above those specified in **Warning and Use Limitations**.
• In case of intended use in explosive atmospheres, contact 3M Technical Service.
• Leave the contaminated area immediately if:
a) Any part of the system becomes damaged.
b) Airflow to the face piece decreases or stops.
c) Breathing becomes difficult or increased breathing resistance occurs.
d) Dizziness or other distress occurs.
e) 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.

Occupational Health and Environmental Safety Division

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Occupational Health and Environmental Safety Division

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08/12