

3M™ Particulate Filter 2138, GP2/GP3*

With Nuisance Level Organic Vapour/Acid Gas Relief

Technical Data Sheet



Description

3M™ Particulate Filter 2138 is one of the 3M™ 2000 series particulate filters. These are used with 3M™ Half and Full Face respirators.

Features

- Lightweight and provides low breathing resistance
- Made from 3M high performance filter media for effective filtration efficiency
- 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 and 3M™ Full Face Respirators 6000/7000 Series

Specifications

- Filter Rating: GP2/GP3*
- Provides protection against certain mechanically and/or thermally generated particulates such as dusts, mists and fumes.
- It is also suitable for use against ozone and nuisance** level acid gas & organic vapours with low vapour pressure (<1.3 Pa @ 25°C)
- **Note:** Higher P3 protection only achieved with a 3M Full Face Respirator. Otherwise P2 protection level when worn on a 3M Half Face Respirator
- Weight: 15g per filter (nominal)

Hazards/Tasks

- For protection against welding fume, ozone, polishing and grinding particles when welding or fabricating
- Also for spraying pesticides or herbicides containing organic vapours with vapour pressure <1.3 Pa @ 25°
- Also for protection against certain highly toxic particulates e.g. Beryllium (ref AS/NZS 1715)

*Higher P3 protection only achieved when worn with a 3M Full Face Respirator. Otherwise P2 protection level when worn on a 3M Half Face Respirator.

**Nuisance levels are those levels below the Workplace Exposure Standard (WES)



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).

When to change particulate filters

The service life of a particulate filter is indicated by a change in breathing resistance. As the filter continues to capture contaminants, the ease of breathing will reduce. Deciding when to change to out the filter is therefore based on the wearers' individual assessment of breathing resistance and comfort.

A 'G' rated filter has additional service life requirements over and above those for a standard particulate filter due to the carbon content. This filter should be discarded no longer than 6 months after opening (AS/NZS 1715).

Significant exposures times and exposure levels can fill the carbon capacity much quicker than this and filter change times should be assessed in regards to the specifics of the task, substances involved and times of 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 a 3M 6000/6500QL/7500 Half Face Respirator: Particles - for airborne concentrations up to 10 times the Workplace Exposure Standard (WES).
- With a 3M Full Face Respirator: Particles - for airborne concentrations up to 100 x WES
- Organic compounds with low vapour pressures (<1.3Pa @ 25 degrees Celsius) in concentrations up to 10 x WES
- Ozone up to 10 x WES
- Offers relief from acid gases and organic vapours at levels below the 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 for continuing reference.

Shelf Life, Storage and Transportation

Shelf life of the unopened product is three (3) 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 (with the respirator) in an airtight container, will reduce exposure to the work environment and help prolong the life of the equipment.

Ordering Information

3M Code	Model #	Description
70071486214	2138	GP2/GP3 Particulate, Ozone & Nuisance Level OV/AG Disc Filter

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.



3M Australia Pty Ltd
Personal Safety Division
Bldg A, 1 Rivett Road
North Ryde NSW 2113
TechAssist Helpline: 1800 024 464
Customer Service: 1300 363 565
Email: techassist@mmm.com
Web: www.3M.com/au/ppesafety

3M New Zealand Ltd
Personal Safety Division
94 Apollo Drive, Rosedale
Auckland 0632
TechAssist Helpline: 0800 364 357
Customer Service: 0800 252 627
Email: techassist@mmm.com
Web: www.3M.com/nz/ppesafety

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