
3M
Science.
Applied to Life.™
3M™ Service Life Indicator technology to help increase confidence in protection.
Introducing 3M™ Organic Gas &Vapour Service Life Indicator Filters 6051i and 6055i Series. These innovative filters have a unique to 3M end-of-service-life indicator (ESLI) to help users determine when to change their filters in appropriate environments.*
*Please see the 6051i and 6055i User Instructions or the 3M™ Select and Service Life Software (3M.eu/SLS) to determine if these filters are appropriate for your work environment.

3M™ Organic Gas & Vapour Service Life Indicator Filters 6051i and 6055i Series

When safety is on the line, change is critical

3M™ Organic Gas & Vapour Service Life Indicator Filters incorporate a revolutionary end-of-service-life indicator (ESLI) technology to help answer the question that every respirator user must answer — "when should I change my filters?"

In appropriate environments,* the 3M™ Service Life Indicator can:

Provide confidence in protection

- The 3M Service Life Indicator can help provide added peace of mind as a complement to your current change-out schedule, and in some cases replace your current practices.
- This technology can help increase compliance with your company's respiratory policy and industry requirements.
- These filters are CE approved as A1 (6051i) and A2 (6055i) organic vapour filters against certain organic gases and vapours **plus** they have all of the features you would find in standard 3M Gas & Vapour Filters.

Optimise filter use

It's designed to indicate service life based on individual exposure and respiratory use patterns.

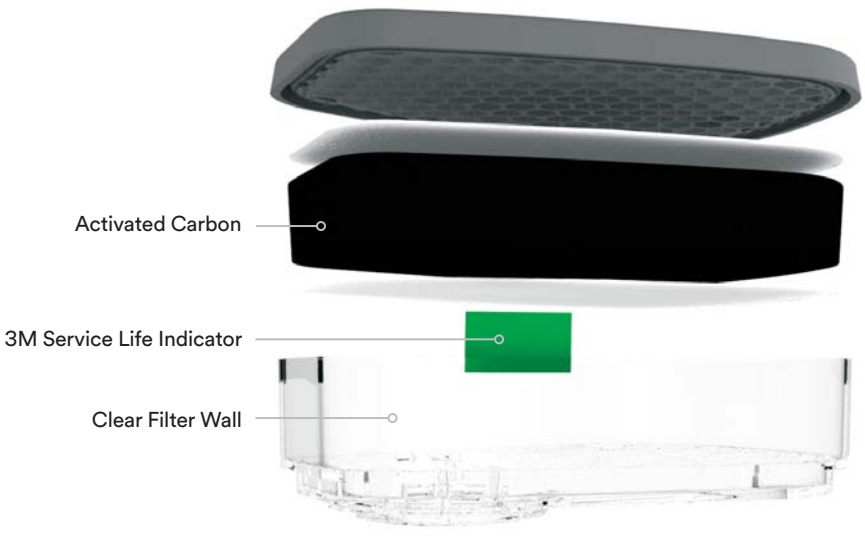
Engage your workforce in safety

This simple, visual tool can help users determine when to change filters.

How the 3M™ Service Life Indicator works

3M™ Organic Gas & Vapour Filters 6051i and 60551i contain the 3M Service Life Indicator, a visual ESLI for certain organic vapours and exposure levels. The ESLI is located inside the filter, next to the activated carbon. As organic vapours travel through the filter, they are also adsorbed into the ESLI. The clear filter wall allows you to monitor the developing indicator bar. When the filter is exposed to specific vapour concentrations, you will notice a change in the indicator.

When used properly in appropriate environments, an indicator bar will develop to help determine the remaining filter service life.



*See 'Using the indicator' on the next page.

Using the indicator

The 3M Service Life Indicator can be used to complement your current filter change schedule. You must change your filter at the normally scheduled interval or when the ESLI indicates, whichever occurs first.

In some cases you can use the ESLI as a primary method to determine filter change, replacing your current change schedule method.

To find out if the 3M Service Life Indicator may be used as the primary method for determining your filter change-out schedule:

1) Perform exposure monitoring to quantify the organic vapour exposure levels in your workplace. Visit www.3M.eu/monitorbadges for information on 3M™ Organic Gas & Vapour Monitors.

2) Enter the monitoring results in the 3M™ Select and Service Life Software (3M.eu/SLS). If the ESLI is not applicable as a primary method, it may still be used to complement your current filter change schedule.

Common Organic Vapours and Minimum Indication Level (MIL)

NOTE: This is NOT a list of what the 6051i and 6055i may be used for. In order to rely on the 3M™ Service Life Indicator as a primary method for determining when to change filters, both of the following conditions must be met: Worker exposure levels ≥ MIL, AND MIL ≤ occupational exposure limit. Please refer to the 3M ESLI software at 3M.eu/SLS to help determine if you can rely on the indicator.

Compound	CAS #	MIL in parts per million (ppm)
Ethylbenzene	100-41-4	2
Styrene	100-42-5	1
Propyl bromide	106-94-5	147
1,2-Dichloroethane	107-06-2	145
Methyl propyl ketone	107-87-9	23
Propyleneglycol methylether	107-98-2	24
Methyl isobutyl ketone	108-10-1	5
Isopropyl acetate	108-21-4	30
Methoxypropyl acetate (propylene glycol monomethyl ether acetate)	108-65-6	3
Diisobutyl ketone	108-83-8	10
Toluene	108-88-3	8
4-methyl pyridine	108-89-4	2
Chlorobenzene	108-90-7	4
Cyclohexanone	108-94-1	11
3-methyl pyridine	108-99-6	2
n-Propyl acetate	109-60-4	25
2-Methoxyethanol	109-86-4	59
Tetrahydrofuran	109-99-9	280
Isobutyl acetate	110-19-0	5
Methyl amyl ketone	110-43-0	3
n-Hexane	110-54-3	93
2-Ethoxyethanol	110-80-5	20
Ethoxyethyl acetate	111-15-9	2
n-Octane	111-65-9	2
2-Butoxyethanol	111-76-2	1
n-Nonane	111-84-2	1
Isoamyl alcohol	123-51-3	5
n-Butyl acetate	123-86-4	2
1,4-Dioxane	123-91-1	60
Isoamyl acetate	123-92-2	2
Tetrachloroethylene	127-18-4	20
Xylenes	1330-20-7	2
Limonene (d-)	138-86-3	2
Ethyl acetate	141-78-6	161
n-Heptane	142-82-5	12
Trimethylbenzene (mixture)	25551-13-7	2
3-methyl 2-butanone	563-80-4	46
Propionic acid n-butyl ester	590-01-2	3
2-Hexanone	591-78-6	3
1-Hexene	592-41-6	92
n-Pentyl acetate	628-63-7	3
Isopropanol	67-63-0	650
1-Propanol	71-23-8	300
n-Butyl alcohol	71-36-3	34
Benzene	71-43-2	65
Isobutanol	78-83-1	64
sec-Butyl alcohol	78-92-2	83
Methyl ethyl ketone	78-93-3	175
Trichloroethylene	79-01-6	66
Methyl acetate	79-20-9	950
Stoddard solvent	8052-41-3	1
Methyl methacrylate	80-62-6	16
Diethyl ketone	96-22-0	26
Methyl acrylate	96-33-3	104
Chlorobenzotrifluoride (4-)	98-56-6	5
Isopropyl benzene (cumene)	98-82-8	3

Nanotechnology. Applied to taking the guesswork out of filter change.

When the safety of your workforce is on the line, add a layer of reassurance with 3M™ Organic Gas & Vapour Service Life Indicator Filters. In appropriate environments,* the 3M™ Service Life Indicator can provide greater confidence in protection with a simple tool to help determine when to change filters.

At 3M, we constantly develop products and technologies to improve safety in an ever-changing workplace. For more information, visit **3M.eu/PPESafety**.

PRODUCT NO.	DESCRIPTION	SKU NO.	CLASSIFICATION	QTY
6051i	3M™ Organic Gas & Vapour A1 Service Life Indicator Filter	70071624079	A1	64/case
6055i	3M™ Organic Gas & Vapour A2 Service Life Indicator Filter	70071624087	A2	64/case

Note: For use with 3M™ Full and Half Masks 6000 & 7000 Series.

*Please see the 6051i and 6055i User Instructions or the 3M™ Select and Service Life Software (3M.eu/SLS) to determine if these filters are appropriate for your work environment.

It is important to change your gas and vapour filters at the right time; using the filter for longer can lead to break-through of the hazard into the mask. Service life is the term used to describe how long a set of filters can be used before they need to be changed.

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Personal Safety Division