

ORGANIC VAPOR CARTRIDGE KGC-10C TYPE MC



**Read User Instruction of gas mask prior to use.
Do NOT open the bag until just before the use.**

• Scope of applications

This cartridge is designed to be used in the environment where "there are organic vapor and dusts." However, the conditions described in the following "⚠DANGER" must be satisfied.



Make sure all of the following conditions are satisfied.

- ① 18% or more of oxygen concentration.
- ② Toxic gas contamination level at the workplace is less than 0.1%.
- ③ The targeted gas is the organic vapor that can be removed by the organic vapor cartridge.
- ④ Average toxic gas concentration level is less than 10 times of the exposure limit. (If the duration of work per day is less than 30 minutes, the concentration level must be less than 30 times of the exposure limit). (Standard of Japan Respirator Manufacturers Association).
- ⑤ The use of KGC-10MC must be avoided at the workplace if:
 - there is a possibility of contamination of spilled radioactive substances.
 - there is an exposure risk to dioxin.
 - metal fume (including welding fume) diffuses.
 - substances, with a standard control concentration level less than $0.1\text{mg}/\text{m}^3$, diffuse.
 - there is an oil mist.
 - or any environment corresponding to the above conditions.

• Specifications

	Internal Standard
Decontamination efficiency(*1)	more than 80 min.
Air flow resistance	less than 160Pa
Particulate filtering efficiency (NaCl)	more than 80.0%
Increased value of inhalation resistance	less than 574Pa(*2)
Weight	41.0 +/- 5.5g

*1 Test gas: cyclohexane 300ppm, temperature: 20°C, relative humidity: 50%
Shelf life of unused cartridge is 2 years from the date of manufacturing.
*2 Average value.

• Fit test

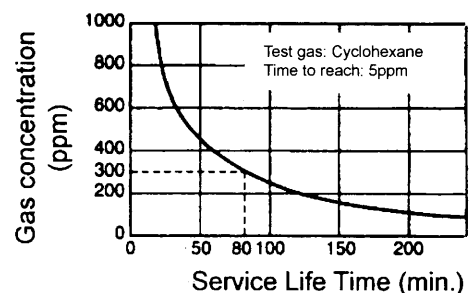
- ① Completely cover the cartridge with fit tester type J (option). Don the respirator, close the end of the pipe by pinching it with thumb and forefinger, and inhale. If the respirator is slightly drawn towards face, good fit is obtained.
- ② If there is inward leakage, inspect the exhalation valve area, check the installation condition of the cartridge, and adjust the tightness of the headband and the position of the respirator. Perform ① again.

• Estimated service life of the cartridge (Instructions for use).

Decontamination efficiency will drop out if used beyond the limit. Replace with a new cartridge if any of the following three conditions occurs.

- ① Accumulation of time elapsed meets the service life time calculated by the breakthrough curve. Check the gas concentration level at the workplace and plot it on the Y-axis. Draw an extension line from the point on the Y-axis, parallel to the X-axis towards the breakthrough curve. Read the value on the X-axis where the extension line meets the curve. The corresponding point on the X-axis by way of the breakthrough curve is the estimated service life of the cartridge. (ex. With the cyclohexane concentration level of 300ppm, service life is approximately 80 minutes).
- ② The wearer feels gas smell, or difficulty in breathing.
- ③ The filtering efficiency against dust gets remarkably decreased. Or the filter gets damaged or distorted.

Breakthrough curve



⚠ WARNING

- Estimated service life using the breakthrough table is just for your reference purpose only. Replace cartridge with a new one well in advance for your safety. Service life also depends on air volume breathed, humidity and temperature.
- Breakthrough table attached to the cartridge has been made based on test gases that are specified by Japanese national assay standard and JIS. Even with the same cartridge, service life can vary, depending on the type of gas.
- Even it is within the estimated service life, if you noticed gas smell, gas stimulation, and/or gas taste, immediately escape to safe and clean air area, and replace the cartridge with a new one.
- Make sure to perform a fit test prior to each use.

⚠ CAUTION

- If you use the cartridge for more than half of the estimated service life, and if you have stored it for more than five days, its remaining service life can be extremely short. In such case, replace the cartridge with a new one at the earliest possible time.
- It is dangerous to estimate the service life only by smell. Sense of smell varies between individuals. And you can be slowly got eased into gas.

• Record of used time

(Fill the used time in the blanks, and replace the cartridge when the total used time reaches to the estimated service life).

yy / mm / dd	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Used time (min.)							
Total used time (min.)							

Type of gas:

User name:



International Trade Division
7, Yonbancho, Chiyoda-ku, Tokyo 102-8459, Japan
Tel :+81-3-5276-1925
Fax :+81-3-3265-1976