



Appendix B. Sample Change Out Calculation

Report Details

Country: United States - English
Date: 08/04/2015
3M Contact Information: PSD Technical Service 1-800-243-4630
Comments:

Cartridge

Product Name 6001
Description NIOSH approved against certain organic vapors. Use with 3M(TM) Half and Full Facepieces 6000, 7000 and FF-400 Series with bayonet filter holders.

Image



WARNING:

These results are estimates only and must be used with caution. Change cartridge earlier if taste, smell or irritation from the contaminant is detected.

Your estimated service life is greater than 8 hours. Please see information on contaminant migration through the cartridge in the Help document. Establish cartridge change schedules that are easy for workers to remember (e.g., 1 day, 1 week, 1 month).

Solution

Estimated Service Life is 370 Hours until breakthrough to 10% of the exposure concentration (0.5 ppm)
Service life calculation based on Toluene at an Exposure = 5.0 ppm

Contaminants

Contaminant	CAS Number	Exposure	Exposure Limit	Molecular Weight	Odor Threshold
Toluene	108-88-3	5 ppm	20 ppm TLV	92.14	0.16

Environment Questions

Relative Humidity <65%
Atmospheric Pressure 1.0
Temperature 68 Fahrenheit
Work Rate Medium