Respiratory Protection

Mercury Filter

Product description

Mercury is a naturally occurring metal found in air, water, and soil. It is distributed throughout the environment by both natural and human processes.

Due to its chemical composition, mercury's atomic structure makes it an effective solvent of most metals. This, combined with its low boiling point, make it useful for extracting gold from ore in a process of amalgamation and distillation.

The major activities which release metallic and inorganic mercury into the atmosphere are gold production, coal fired power plants, and production of alumina from bauxite.

The greatest potential exposure to mercury is in mining via inhalation of either mercury vapour or mercury containing solids (particulate matter) at various stages of the processing, extraction and from the maintenance of scrubber systems associated with the process.

Exposure Standards

Mercury (Alkyl Compounds)
IDLH : 2mg/m^3
TWA: 0.01mg/m^3
STEL: 0.03mg/m^3

Mercury (aryl and Inorganic Compounds)
IDLH: 2mg/m^3
TWA: 0.01mg/m^3
STEL: 0.03mg/m^3

Mercury Elemental Vapour & Inorganic divalent compounds
IDLH : 10ppm
TWA: 0.003ppm, 0.025mg/m^3
STEL: 0.03ppm

Technical Details

Rating : A1 - Organic Vapours
HG-Mercury
P3-Particulates (P3 protection achieved with Full face Mask only, provides P2 protection with a half face respirator)

Country of Origin: USA

Standards

Certified to AS/NZS 1716:2012 License No: SMK 0563 AS/NZS approved for use with the 5500 & 7700 Half face masks and the 7600 Full face mask.

Filter Selection & Life Expectancy

The level of exposure, and the length of exposure. Therefore, this information is presented as an overview only. Consult AS/NZS 1715:2009 selection use and maintenance of respiratory protective equipment. It is impossible to give an exact life expectancy on a filter cartridge for a respirator. This is because the filter life depends on a number of variable factors including the wearers breathing rate, the characteristics and level of the contaminant, the length of time a user is exposed to a contaminant and environmental conditions such as temperature and humidity which could also effect the wearers breathing rate. Saturated or used filter cartridges will leak trace amounts of contaminants to the wearer, which may be detected via odour, taste, and/or irritation - If a contaminant can be detected by any of these means by a user, then filter cartridges should be changed immediately.

Ordering Details

PART NO.	DESCRIPTION	UOM	UOM QTY	DIMENSIONS	WEIGHT	BARCODE
N06575852L	A1HGP3 organic vapour, mercury, particulate filter	Pack	4pr	368 x 368×321	1.17Kg	883940148366

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