

Midget impinger; based upon a count of airborne particles collected by the midget impinger method as described in Appendix 1.

Time-weighted average (TWA) exposure for an 8-hour work day.

Peak concentration determined by a minimum sampling time of 10 minutes.

(b) Sampling

Procedures for sampling, calibration of equipment and analysis of asbestos samples by either the Membrane Filter or Midget Impinger Methods, shall be as described in Appendix 1. Atmospheric monitoring records shall be kept at least three years.

Section 2 - Medical

50%  
1/2 hr

Medical surveillance shall be exercised as described on all workers exposed to airborne asbestos particulates. For the purpose of this requirement the term 'exposed to airborne asbestos particulates' refers to exposures attaining 20 percent of the limits listed in Section 1 for various types of asbestos. The primary objective of this surveillance is to accumulate reliable exposure response data. A secondary objective is to provide guidance for medical management of individuals who show evidence of reaction to past exposure, either due to excessive exposures or hypersusceptibility. However, it is acknowledged that the current state of medical knowledge may not permit successful medical management of such cases beyond therapy for complications of ailments associated with asbestos exposure. Medical surveillance cannot be a guide to adequacy of current controls when medical and environmental data cover only the recent work experience because of the prolonged exposure required for the manifestation of symptoms related thereto.

Required components of a medical surveillance program include annual measurements of pulmonary function including; forced vital capacity (FVC), and forced expiratory volume for one second (FEV<sub>1</sub>), and annual chest roentgenograms (postero-anterior 14 x 17 inches). Additional medical requirement components include a history to quantify smoking habits and to describe details on past exposure to pulmonary hazards and carcinogens, and to determine the presence or absence of pulmonary, cardiovascular, and gastro intestinal symptoms. A physical examination constitutes an additional required component of medical surveillance, with particular attention to pulmonary rales, and clubbing of fingers.

Chest roentgenograms (X-Rays) and pulmonary function tests will be performed at the employer's expense annually. Preplacement medical examinations and medical examinations on the termination of employment of exposed workers are also required.