

The following adapter is recommended to ensure tight connection between the cassette and the 1/4-inch tubing:

Catalog No. 8960-045 syringe needle
adapter to 1/4-inch tubing.
A. H. Thomas Co
Philadelphia, PA 19105

7.3 Procedure. Haskell Laboratory Field Services Group shall be contacted for specific recommendations as to duration, frequency, and technique for sampling prior to embarking on a sampling program.

7.3.1 Flow through the pump should be calibrated, with the filter in line for each pump.

7.3.2 Personnel Sampling. Filter holder is clipped to lapel or shirt pocket as close to breathing zone as possible. Filter shall have face horizontal or slightly downward, never up.

7.3.3 Environmental Sampling. These samples are taken from a fixed location to give a general pattern of exposure in a work position or area. Filter is placed as close to breathing zone representative of the work area.

7.4 Analysis. Completed samples (exposed filters) are placed in a mailing tube, sealed, and sent to a qualified laboratory with two copies of the sampling record.

7.4.1 It is recommended that an unexposed filter be included with each batch of samples for reference.

7.4.2 All determinations shall be made by the membrane filter method at 400-450X (magnification) (4mm objective) with phase contrast illumination.

7.4.3 Qualified Laboratories

G. W. Hiddemen
E. I. du Pont de Nemours & Co
Marshall Laboratory
3500 Grays Ferry Avenue
Philadelphia, PA 19146

Graduate School of Public Health
University of Pittsburgh
Pittsburgh, PA 15213

W. A. Burgess
38 Fox Hill Street
Westwood, MA 02090

7.5 Record Keeping. Records of personnel and environmental monitoring shall be maintained for at least twenty (20) years and made available upon the request of authorized representatives of OSHA and NIOSH (National Institute of Occupational Safety and Health).

7.6 Caution Signs and Labels

7.6.1 Caution signs conforming to Figure 1 shall be posted at all approaches to areas where asbestos

concentrations may be above permissible exposure limits. They shall be placed at a sufficient distance to permit an employee to read the signs and take necessary precautions before entering the area.

7.6.2 Caution labels conforming to Figure 2 shall be used to identify containers of raw materials, scrap, waste, other products containing asbestos, and asbestos contaminated clothing.

7.6.3 Identification labels are suggested for asbestos containing insulation, see SN218P.

8. EPA ASBESTOS EMISSION REGULATIONS

8.1 Application. Regulations also have been promulgated by the Environmental Protection Agency (EPA).^{*} These apply to friable asbestos materials which contain more than one percent asbestos by weight and which can be crumbled, pulverized, or reduced to powder by hand pressure when dry. Du Pont operations within this criterion normally will be limited to demolition or renovation involving asbestos insulation.

8.1.1 When demolition or renovation amounts to more than the quantities listed below, a detailed report shall be filed with EPA prior to removal. The removal operation shall follow the other requirements of this standard, particularly 4.5 and 4.6.

a. 260 lineal feet (80 meters) of asbestos containing pipe insulation, or

b. 160 sq ft (15 sq meters) of asbestos containing insulation on ducts, boilers, tanks, or structural members

8.1.2 The requirements of this standard should more than meet the additional precautions specified by EPA regarding wetting, containerizing, disposal, and exhausting. The latter are aimed at preventing visible emissions during the operation and are equal to or less restrictive than those of this standard (3.1).

8.1.3 When demolition or renovation amounts to less than 8.1.1 (a) or (b) a simplified report shall be filed with the EPA prior to removal. The removal operation also shall follow the other requirements of this standard, particularly 4.5 and 4.6. (EPA handling restrictions do not apply to these quantities.)

8.2 For specific report and compliance requirements, refer to the EPA regulations^{*}. Local or state regulations also should be reviewed since they may be more restrictive.

^{*} National Emission Standard for Asbestos, Title 40 Code of Federal Regulations, Subpart B 61.20 through 61.25 (40 CFR 61.20-61.25) Originally published in Federal Register, 48282, October 14, 1973)
Portions printed in red meet OSHA regulations, Section 1910.1001 (formerly 93a)



REV. OCT 1979