92-00004

March 5, 1973

MEMO

EQUIPMENT FOR MEMBRANE FILTER/PERSONAL AIR SAMPLER METHOD OF EVALUATING ASBESTOS FIBER DUST LEVELS

I. Sampling Equipment

A. Sampling head

A Plastic aerosol field monitor, equipped with 37 mm Millipore filter of .08 micron pore size supported on a backing pad within the monitor.

The complete assembly may be purchased from:

Millipore Corporation
Bedford, Massachusetts 01730

under the following description:

Catalog # MAWP 037-A0
Aerosol field monitors Type AA, 0.8.

B. Sampling pump

A battery powered diaphragm pump operating at approximately 2 liters per minute. Suitable pumps, complete with battery charger, are available from:

(1) Willson Safety Products
Division of Electric Storage Battery Co.
Reading, Pa. 19603

Casella Model T-13030/1 Personal Air Sampler, less radioactive dust sampling head.

Casella Model T-16124 Battery Charger

(2) Mine Safety Appliance Company
201 North Braddock Ave.
Pittsburgh, Pa. 15208

Catalog # 456058
MSA Portable Pump Assembly, Model G

Catalog # 456059
MSA Battery Charger Assembly for Model G Pump.

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(3) National Environmental Instruments, Inc.
P.O. Box 590
Pilgrim Station
Warwick, Rhode Island 02888

Part # 3900-10 Micronaire sampler, complete with rechargeable battery and charger.

(C) Connecting hose

Suitable connecting hose complete with support clips available from pump manufacturer.

(D) Calibration Equipment

It is suggested that the pump manufacturer be requested to recommend suitable test procedures and equipment.

A frequently used calibration procedure requires the use of a wet test meter similar to Precision 11-168-5 wet test gas meter, available from most scientific equipment supply houses.

II. Analysis Equipment

A. Microscope

Binocular microscope with magnification of 400X - 450X, equipped with phase contrast illumination.

Suitable microscopes are available from:

Bausch and Lomb
American Optical
Leitz.

B. Miscellaneous equipment

Miscellaneous equipment required for the analysis procedure includes:

EQUIPMENT FOR MEMBRANE FILTER/PERSONAL AIR SAMPLER METHOD OF EVALUATING ASBESTOS FIBER DUST LEVELS (Cont'd.)

B. Miscellaneous equipment (Cont'd.)

1. Microscope slides and cover glasses.

2. Sample preparation equipment

3. Sample fixing fluid.