

6/27/72

OSHA SAMPLING DATA SHEET #2 (REVISED)

PLAINTIFF'S EXHIBIT

GP-2172

Substance:

Asbestos.

Standard: 29 CFR 1910.93a(b), (1) and (3) of June 7, 1972

8-hour time-weighted average: 5 fibers, longer than 5 micrometers, per cubic centimeter of air.

Ceiling concentration: 10 fibers, longer than 5 micrometers, per cubic centimeter of air.

Analytical Method:

Fibers counted at 400-450 magnification, using phase contrast illumination, with sample mounted in high-viscosity solution of membrane filter material.

Sampling Equipment:

Personal sampling pump plus Millipore type AA Filter (37mm, 0.8 u pore size). Face cap is removed and filter used open face during sampling.
Sample rate: 2 l/m. (liters per minute)

Sample Size:

Minimum period of 15 minutes for evaluation of ceiling limit. Several samples of up to 4 hours for evaluation of 8-hour average. Samples with a visible deposit may be too heavy to count. Compare with a clean filter. Heavy concentrations of visible dust in the air (100 to 500 fibers/cc) may require short sampling periods of only 5 minutes, or less.

Blanks:

With each batch of samples submit two ^{filters} ~~fibers~~ which are subjected to exactly the same handling as for the samples except that no air is drawn through them. Label these as blanks.

Shipping:

The cassettes in which the samples are collected should be shipped in a suitable container, designed to prevent damage in transit.

Imminent Danger Situations:

Generally not applicable.

OSHA SAMPLING DATA SHEET #2 (REVISED)--ContinuedSerious Violation:

More than 5 fibers longer than 5 micrometers, per cubic centimeter of air, for an 8-hour time-weighted average, or an individual sample of more than 10 fibers, longer than 5 micrometers, per cubic centimeter of air. The times permitted at 10 fibers longer than 5 micrometers per cubic centimeter can be obtained from the attached graph. Times permitted at fiber counts between 5 and 10 fibers (including 10 fibers) can be worked out with the C_1/T_1 formula using the 5 fibers standard as the 8-hour time-weighted average.

$$\frac{C_1}{T_1} + \frac{C_2}{T_2} + \dots + \frac{C_n}{T_n} = 1$$

Nonserious Violation:

Not applicable.

De Minimus Violation:

Not applicable.