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SUPPLEMENTAL LISTING OF DEFINITIONS

19 April 1974

This listing is a supplement to Document No. 5 published as Appendix 6 of the minutes of the second meeting of the Task Group on Naturally Occurring Inorganic Fibers of ASTM Committee E-34.

1. Definitions submitted by Mr. A. A. Hodgson, Cape Asbestos Fibres Limited, 24 Jan 1974.

fibres Fibres are defined as being of a length greater than $5\mu\text{m}$ and having a length/breadth ratio of at least 3:1. There is no upper limit for the length of the fibres, but a maximum diameter of $3\mu\text{m}$ is defined. Airborne asbestos dust concentrations are expressed in fibers per milliliter of air (f/ml).

(taken from the Asbestosis Research Council's Technical Note 1, paragraph 2.1)

asbestos - acicular silicate mineral, with a structure based on silicon - oxygen tetrahedra, composed of crystals in a predominantly parallel orientation, and distinguished by its ability to split indefinitely from its macro form to individual flexible fibrils having minimum length to breadth ratio of 3 to 1 and cross sectional dimensions approaching $0.01\mu\text{m}$.

2. Definitions submitted by Mr. G. Gagnon, Lake Asbestos of Quebec Limited, 28 Jan 1974:

fibre - any material in a form such that it has a minimum ratio of length to average maximum transverse dimensions of 10 to 1.

asbestos fibre - silicate mineral, with a structure based upon silicon - oxygen tetrahedra, that fits the definition of a fibre and is composed of single crystals in predominantly parallel orientation. Common usage also designates a collectivity of asbestos fibres as asbestos fibres.

3. Definitions submitted by Dr. M. Grimard, Chief, Health Effects Division, Environmental Health Directorate, Department of National Health and Welfare of Canada,

fibre - (definition as applied to minerals): any material which by microscopy presents the following optical characteristics: a filiform or bundle of filiform bodies having a length to diameter ratio of at least 3:1

asbestos fiber - acicular silicate mineral, with a structure based upon silicon-oxygen tetrahedra, that fits the definition of a fiber, and is composed of single crystals in predominantly parallel orientation.

4. Definitions submitted by Mr. A. M. Harvey, Manager, Legal and Products Application, R. T. Vanderbilt Company, Inc., 4 Jan 1974:

mineral fiber - any form of mineral characterized by properties of flexibility and length to width ratio of at least 100, and composed of definite crystal unit cells oriented with respect to a specific axis.

asbestos - is a generic term for a number of hydrated silicate minerals that, when crushed or processed, separate into flexible fibers made up of fibrils. These minerals include chrysotile, crocidolite, amosite, anthophyllite asbestos, tremolite asbestos and actinolite asbestos.

5. Definitions submitted by Mr. R. B. Steele, Laboratory Services Engineer, Product Research and Development Department, Asbestos Corporation Limited, 5 March 1974:

Fibril - Is a polymeric form of solid whose component repeating sub-units extend along a single major axis, and which can not be subdivided along this longitudinal axis without destroying the integrity of the structure.

Fiber - Is a bundle of fibrils in parallel alignment, the composite possessing a maximum diameter of 100 microns, and a minimum aspect ratio of 20.

Asbestos - Is a generic term for a number of silicate minerals, the morphology of whose component particles fits the definition of a fiber.

Asbestos Fiber - Is a fiber belonging to one of the six types of asbestos minerals: chrysotile, crocidolite, amosite, anthophyllite asbestos, tremolite asbestos, and actinolite asbestos.

6. Definitions submitted by Mr. A. A. Harvey, Manager, Legal and Products Application, R. T. Vanderbilt Company, Inc., 30 Jan 1974; Definitions taken from pages 26, 27 174 and 175 of the 1973 ASTM Glossary: Refer to page 3.

7. Refer to Appendix 5 and 6 of the minutes of the third meeting of the Task Group on Naturally Occuring Inorganic Fibers.