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Textile Institute

Minutes: ASBESTOS TEXTILE INSTITUTE

FIBER TESTING COMMITTEE February 6, 1964

Meeting held at the Barbizon-Plaza Hotel, New York City

In Attendance:

I. Barnett, Chairman,-- Johns Manville Corporation
J.D. McCluer, H.K. Porter Company, Inc.
E.A. Farrell, Lake Asbestos of Quebec, Ltd.
J.W. Hawkins, Raybestos-Manhattan, Inc.
J.D. Christian, Cassiar Asbestos Corporation
T.T. Tigert, Cassiar Asbestos Corporation
J. Wronski, Raybestos-Manhattan, Inc.
N.W. Edgerton, Johns-Manville Products Corporation
R. Marson, Ontario Research Foundation

Symposium on Electrical Properties of Asbestos Fiber

The Fiber Testing Committee sponsored a symposium on electrical properties of asbestos fiber. Mr. N. W. Edgerton of the Johns-Manville Products Corp. was principal speaker and conducted the session. Members from the Technical and the Air Hygiene & Mfg. Committees participated.

In summary, the symposium accomplished the objective of reviewing the various electrical properties required in an asbestos textile, method of testing for each property, relative electrical values of different types of asbestos, and most important, a discussion on the physical and chemical characteristics of asbestos that influence the electrical properties.

With a better understanding of the causes of poor electrical properties it is felt that the textile manufacturer could more intelligently pursue the development of improved asbestos products for the electrical industry.

Test Procedures

1. Magnetic Rating Test

A preliminary study by several members indicated sufficient potential of the Magnetic Force Method as proposed by Raybestos-Manhattan to justify a formal study by this committee.

As expected in tests of this nature there are many critical areas that must be thoroughly investigated relative to reliability

A sub-committee was formed consisting of J.W. Hawkins, Chairman, E.A. Farrell, and J.D. McCluer to first submit recommendations on procedure for preparing standard samples to be used in the test studies, and then attempt to define the critical areas in the proposed test method.



MT-005943

2. Suter-Webb Comb Test

A revised procedure developed by Cassiar Corp. and Turner Bros. Asbestos Co., was reviewed by Mr. Tigert of Cassiar. Copies of the procedure were distributed and will be further reviewed by all members for action relative to adoption by the next meeting.

3. Frictional Properties

Johns-Manville reported considerable difficulty in arriving at a satisfactory technique of anchoring the test pad of fiber to the rotational discs in the experimental friction tester. When the bond between the pad of fibers and the discs is less than the inter-frictional fiber resistance the values obtained are not significant. Work will continue on this project.

4. Bauer-McNett Wet Classifier

QAMA reported in their November 19, 1963 meeting that work is continuing on the new classifier. Splashing was found to be due to mechanical imperfections in the machine and work is underway to eliminate these. All of the other recommendations made by the QAMA sub-committee to Bauer Brothers have been concurred with. The sub-committee will review the distributed results on the use of the automatic wiper to avoid manual cleaning.

Report on New ASTM High Modulus and Inorganic Fiber Committee

The subject committee was formally organized in January 1964 with P.D. Gorsuch of the General Electric Space Technology Center as Chairman. Asbestos fiber is covered in one of the sub-committees. As in previous meetings, the scope was limited by a majority vote to test procedures and definitions, and does not include specifications for the present. Our A.T.I. Fiber Testing Committee plans to keep abreast with the progress of this ASTM committee.

Plans for Revising the Manual of Test Procedures

Publishing of either a revised manual or an appendix is tentatively scheduled for the first of 1965. The cut-off date for approving the contents has been set for the October 1964 meeting of this committee.

In the meantime, all approved but unpublished tests and all revisions will be reviewed by A.T.I., ACPA, and QAMA. Our British and French Associates will be notified of these plans and will be requested to actively participate in the review.

Respectfully Submitted,

Irvin Barnett, Chairman