PLAINTIFF'S EXHIBIT

ATI-150

MINUTES of the Meeting of the Technical Committee of the Asbestos Textile Institute held May 6th & 7th, 1952 at Philadelphia, Pa.

IN ATTENDANCE:

J. L. Tucker, Chairman
JOHNS-MANVILLE CORP.

AMERICAN ASBESTOS TEXTILE CORP.
E. C. Cutler

ASTEN-HILL MFG. CO.
D. V. Asten

JOHNS-MANVILLE CORP.
W. H. MacAlpine

KEASBEY & MATTISON CO.
C. R. Frederick
C. R. Hutchcroft
R. L. Lenz

RAYBESTOS-MANHATTAN, INC.
H. W. Oliver
J. H. Weaver

SOUTHERN ASBESTOS CO.
J. D. McCluer

UNION ASBESTOS & RUBBER CO.
A. W. Summers

RUTGERS UNIVERSITY
H. C. Shaw

1. The meeting was called to order by the Chairman and the agenda for the session presented for consideration. It was agreed that the first subjects to be considered should be the specifications for standard cloths and braids. Following the completion of this work the remainder of the agenda should then be taken up in the order presented.

2. Corrections, additions and deletions for the cloth and braid specifications were thoroughly discussed and the specifications here developed are set forth in the tables attached to these Minutes.

3. In further consideration of the above specifications the question was raised as to the advisability of establishing, at this time, values for tensile strength after heating which might be included in the present work. Following a thorough discussion it was agreed that since such values are largely dependent upon the testing technique and since the establishment of a suitable testing technique is presently in the process of being revised through the cooperative efforts of this committee and the Westinghouse Corporation, it would be advisable to withhold further consideration of this subject until a later date when more substantial data may be available upon which reasonable conclusions may be based.

4. The next subject presented for consideration concerned the list of projects currently active in the Fellowship program. The list as presently constituted includes five major projects and three projects which are considered to be in reserve, to be



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given study at such a time as the major projects have been completed. However, in view of recent developments of technological and economical importance, it was felt that a realignment of this work should be considered and recommendations on the basis of these considerations be given to the Institute so that the work of the Fellowship and the Technical Committee would be most profitable for the Institute.

a) The first project on the Fellowship list concerns the "Heat Aging Test" wherein a study is to be made to determine the properties and characteristics of asbestos textiles at elevated temperatures and (2) a proper and standard test method and technique is to be developed by means of which the effect of heat aging upon the properties of asbestos textiles may be determined in accordance with the provisions of various Federal and Industrial specifications.

Following the discussion of this subject it was agreed that this project should remain on the list in first position and it was recommended that every effort be made by the Fellow to bring this work to an early conclusion.

b) The second project on the list of Fellowship work concerns the development of a suitable asbestos textile for pipe covering purposes. It was pointed out by the Fellow that the aluminum clad asbestos cloths were the direct result of this work and direction regarding a continuation of the investigation of these new materials was sought. Also, it was noted by members present that at the time this project was originally suggested some work was being done wherein asbestos tape was being used as a lagging material and the question was raised as to what had been learned regarding this type of construction.

Following the discussion of this project it was moved by J. M. Weaver, seconded by J. D. McCluer and unanimously agreed that the Fellow should continue to investigate all forms of aluminum clad asbestos textiles and endeavor to develop new uses for fabrics so treated. Further it was agreed that the Fellow with the assistance of Johns-Manville representation should endeavor to ascertain the merits of asbestos tape lagging by visiting installations where such constructions have been used. Arrangements for such a visit will be made by Mr. S. V. Dillon, Johns-Manville Corp.

c) The third project on the Fellowship list is related to the determination of the temperature resistance of five grades of asbestos cloths. The first report covering this work was presented at the last General meeting of the Institute and the information there set forth appears to be quite significant, however, it was generally agreed that a great deal more work covering a greater variety of cloths will be required before definite conclusions can be established. It was therefore moved by C. R. Frederick, seconded by E. C. Cutler and unanimously agreed that this work should be continued on a broader scope and that any publications carrying the results of this work should be withheld until further work has been completed.



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d) Project four is an investigation wherein comparisons of asbestos textiles with glass-asbestos combinations, glass and duck are to be made with respect to: 1) abrasion resistance, 2) heat and moisture degradation, 3) mildew and soil aging tests and 4) alkaline resistance. In view of the uncertainty of spinning fiber quality and the possibility of the incorporation of staple glass fiber as a common asbestos textile ingredient, both of which may greatly influence the quality of resulting textiles, it was unanimously agreed that this project should be held in suspension until the above noted conditions have been stabilized.

e) Project five covers the investigation of the fire and flame resistant qualities of asbestos and glass-asbestos combination textiles. It was pointed out by the Fellow that a report covering a part of this investigation was submitted some time ago, however, no action in this regard has, to date, been taken. It was therefore agreed that each member should review this report and be prepared to further discuss this subject at the next meeting.

Following the review of the list of active projects, the discussion was opened for the introduction of new projects which might be included in this work. At this point Mr. Frederick suggested that a project devoted to the investigation of the dielectric strength and other electrical properties should be included in the work of the Fellowship. Concurring with this view, Mr. Weaver discussed the work of a new A.S.T.M. task force which has been assigned the problem of determining the role of magnetic iron versus total iron in chrysotile as related to the electrical properties of fibers so contaminated. It was pointed out that in conducting this work it will be necessary to determine the dielectric strength, magnetic rating, resistivity and power factor for a great many fibers and textile materials. In view of the importance of this problem it was moved by J. H. Weaver, seconded by C. R. Frederick and unanimously agreed that this project should be placed on the active list of the Fellowship projects and the Fellow be authorized to participate on the A.S.T.M. Task Force assigned to the study of the magnetic iron versus total iron content in chrysotile as related to the electrical properties of textiles produced from such fibers. Further, it was agreed that the Fellow should proceed to acquire the equipment for conducting the necessary tests as it may be available on the Rutgers campus.

In concluding the discussion of the Fellowship work it was recommended that in all investigations where cloths are the subject of test, cloths having the following constructions should be included and considered as representative:

| Weight | A.T.I. Designation |
|---|---|
| 1.05 | 17P24 |
| 1.65 | 26P14 |
| 2.15 | 34P12 |
| 2.25 | 36P10 |
| 2.50 | 40H14 |
| 3.00 | 48P10 |



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5. The Fellow advised the meeting that a firm known as Custom Scientific Instruments, Inc., has asked permission to serve as the builders of our Abradoflex and to market it under a suitable arrangement with the Institute. There was a thorough discussion of this subject and it was finally moved by J. M. Weaver, seconded by J. D. McCluer and unanimously agreed that the entire matter be placed before the Board of Governors and the legal counsel for proper disposition.

6. There being no further business to come before the session, the Chairman announced that the cloth and braid tables containing the corrected data here developed would be sent out as quickly as possible and it was asked that each member go over this work in preparation for the next meeting to be held in Philadelphia on Wednesday, June 19th, so that these standards may be adopted at that time, if possible.

7. There being no further business to come before this session, it was unanimously agreed that the meeting be adjourned.

Myril C. Shaw,
Secretary



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