FILE NAME: Asbestos in Plastics (AIP)

DATE: 1960 Nov

DOC#: AIP005

DOCUMENT DESCRIPTION: Meeting Minutes - Asbestos Technical and Standards Committee of the SPI Reinforced Plastics Division

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
250 PARK AVENUE • NEW YORK 17, N. Y. • MURRAY HILL 7-2675

# MINUTES

## ASBESTOS TECHNICAL AND STANDARDS COMMITTEE OF THE SPI REINFORCED PLASTICS DIVISION

Roosevelt Hotel
New York City

November 28, 1960
10:00 a.m.

Present:

Dominick V. Rosato, Chairman, Telecomputing Corp., 403 Statler Office Bldg., Boston 16, Mass.
John A. Bettes, Jr., Raybestos-Manhattan, Inc., Manheim, Pa.
R. T. Crouch, Johns-Manville Research Center, Manville, N. J.
Charles P. Kilis, Jr., Raybestos-Manhattan, Inc., 1400 E. Orangethorpe, Fullerton, Calif.
S. A. Farrell, Lake Asbestos of Quebec, Ltd., P. O. Box 127, So. Plainfield, N. J.
M. M. Gibson, Raybestos-Manhattan, Inc., Manheim, Pa.
W. L. Graves, Continental-Diamond Fibre Corp., Sub. The Budd Co., Newark, Del.
Howard A. Hittner, Ordnance Corps, Frankford Arsenal, Philadelphia 37, Pa.
T. E. Holdridge, Narmco Materials, 600 Old Country Rd., Garden City, L. I., N. Y.
R. W. King, Battelle Memorial Institute, 505 King Ave., Columbus 1, Ohio
C. R. Rugger, Picatinny Arsenal, Building 163, Dover, N. J.
E. A. Schuman, Johns-Manville Sales Corp., Packing & Friction Materials Div., 22 E. 40th St., New York, N. Y.
Myril C. Shaw, Asbestos Textile Institute, c/o Philadelphia Textile Institute, Schoolhouse Lane, Philadelphia 44, Pa.
H. A. Smith, Bell Asbestos Mines, Ltd., Thetford Mines, Quebec, Canada
L. Spivak, Rogers Corp., Rogers, Conn.
L. E. Wild, Nicolet Industries, Inc., Florham Park, N. J.
Max F. Zullig, H. K. Porter Co., Thermoid Div., Whitehead Rd., Trenton, N. J.
Charles L. Condit, SPI, 250 Park Ave., New York, N. Y.(Secretary)

Under the direction of Dominick Rosato of Telecomputing Corporation, a third meeting of the Asbestos Technical and Standards Committee of the SPI Reinforced Plastics Division convened at 10:00 a.m. in the Roosevelt Hotel, New York City.

Following the usual self-introductions, Mr. Rosato referred those in attendance at the meeting to an agenda around which the day's discussions would revolve.

Before embarking upon a discussion of the principal topics to be considered at the day's meeting, Mr. Rosato indicated that one of the basic decisions to be made is whether the Asbestos Technical and Standards activity is to be continued; that if it can be agreed that the original scope of intent is meaningful, then in his opinion, the work of the Committee should be continued. He asked, therefore, that before the day's discussions are completed that agreement be reached as to whether the activity is to be pursued further.

PURPOSE

Mr. Rosato referred the Committee members to a September 1960 draft of a bulletin providing current available information and data concerning the use of asbestos as a reinforcement in reinforced plastics. This draft was circulated to a wide mailing list prior to the day's meeting in order that those in attendance would have an opportunity of reviewing the proposal before coming to the meeting. Mr. Rosato said that the draft of the bulletin was prepared by him, based upon information submitted as a result of the first two meetings of the Asbestos Committee; indicating that the bulletin has been augmented with technical information available in the permanent literature.

If one is to cite the purpose of the Asbestos Technical and Standards Committee, Mr. Rosato said that "the principal reasons for the Committee are attributed to the growing demand for asbestos reinforced plastics and that an education is required in better understanding asbestos as applied to reinforced plastics. Raw asbestos can introduce a multiplicity of problems if its variables are not understood. These variables include conditions such as chemical analysis, grading, classification, etc."

In his concluding remarks regarding the purpose of the Committee, Mr. Rosato reminded those present that it is the continuing function of the SPI to keep the plastics industry up to date in all fields of plastics development.

BULLETIN ON ASBESTOS REINFORCED PLASTICS

Mr. Rosato then turned the Committee's attention to the draft of the bulletin which he has prepared for consideration at the day's meeting on the use of asbestos as a reinforcement in reinforced plastics products; saying again that the draft was prepared as a result of certain information submitted to him as a result of earlier meetings.

Mr. Rosato then reviewed the draft paragraph for paragraph with members of the Committee.

Rearrangement of Copy

During the discussion of the draft of the bulletin on asbestos reinforced plastics, the copy was rearranged in order to place at the beginning of the compilation pertinent information on the use of asbestos as a reinforcement in reinforced products. Following is the new Table of Contents for the bulletin:

1. Index
2. Introduction
3. Properties of asbestos reinforced plastics
4. History
5. Availability
6. Fiber characteristics
7. References

Introduction

In reviewing the introduction to the treatise, the Committee made several editorial changes in the copy including:

1. The deletion of references to "ARP" and in its stead, when

the second draft is made, the Committee will refer to "Asbestos Reinforced Plastics."

2. "Dimensional stability" and "ablation" were added to the listing of typical properties or requirements.

3. A reference to Premix Compounds was added to the listing of typical products using asbestos as a reinforcement.

4. It was suggested in redoing the introduction that broad categories of applications be shown and under each broad category the typical end-use products.

5. Reference will be made in a new draft of the introduction to the fact that asbestos is being used in combination with different fibers such as glass, in order to basically improve the properties of the finished product such as tensile strength at elevated temperatures.

## History

The Committee reviewed the section of the bulletin on history which includes reference to general features, origin, ore deposits, grading, classification of fibers, mining, milling processing, etc. In general, it was agreed that perhaps the detailed information under the section on history is too voluminous and in many cases may not be meaningful to the designer or customer interested in applying asbestos as a reinforcement in a finished reinforced plastics product. It was agreed that consideration be given in redoing the section on history to incorporate a bibliography of reference works on asbestos in order to be able to delete some of the detailed information now found in the draft. This matter will be given careful study by the individuals assigned later in the meeting to begin revising the bulletin. (References to the Classification of Russian asbestos fibers were deleted throughout the copy). (The Committee also deleted all references to health and safety factors.)

It was agreed that in redoing the section on history, a paragraph or paragraphs would be written on production figures, in order to illustrate the scope of the asbestos industry. This information might well lend itself to inclusion in a tonnage chart under the section entitled "Ore Deposits."

## Fiber Characteristics

In reviewing the section on fiber characteristics the Committee decided to delete all references to the families of asbestos fibers known as "Anthophyllite" and "Tremolite."

The Committee also decided to remove from this section, Table 2-6, which illustrates the type of variation which occurs in different mines.

It was further decided to add a paragraph to this section of the document, when it is rewritten, on the subject "Water of Crystallization" presenting details of time and temperature relationships.

## Properties of Asbestos Reinforced Plastics

The Committee then spent most of the remaining hours of the meeting in discussing

SPI 0189

the section of the bulletin which is most pertinent to the designer and potential user of asbestos, namely, "Properties of Asbestos Reinforced Plastics." In the first place it was realized that this copy must be enlarged considerably, in view of the fact that the potential user will be more interested in information on the properties of asbestos reinforced plastics than any other data found in the compilation.

It was generally agreed that in redoing this section on properties, it would be enlarged to include more pertinent details on the advantages of asbestos as a reinforcement in reinforced plastics products. For instance, the advantages of long asbestos fibers will be detailed, an explanation and definition of the various asbestos forms will be presented, as well as detailed information on typical uses of asbestos in the end-use product. Reference will be made to prepregs and premix molding; certain pertinent Tables from Military Specification MIL-P-25770 entitled, "Plastic Materials, Asbestos Base - Phenolic Resin, Low Pressure Laminates" will be added to this section of the document. The address of the National Electrical Manufacturers Association will be given in this part of the compilation, in order that the potential user may write to NEMA for standard specifications existing there. In enlarging this section on properties the Committee will also include pertinent Tables from Military Specification MIL-M-14. Reference will be made to electrical properties and the improved grades available for these applications.

In summary, the section of the bulletin on Properties will be enlarged and detailed, in order to present a more positive approach on the use of asbestos in reinforced plastics parts. This section is to revolve around the following outline:

1. Introduction
2. Reinforcing forms
3. Up-to-date data
4. Why use asbestos
5. MIL properties
6. MIL P25770
7. NEMA
8. Principal uses

It was agreed that the aim in redoing the section on Properties of Asbestos Reinforced Plastics is to educate the potential user, molder and designer, and appeal to him to investigate the use of asbestos in the finished product.

ASSIGNMENTS

It was agreed before the discussions closed that the Asbestos Technical and Standards Committee of the SPI Reinforced Plastics Division would continue as an active Committee of the Division. The following assignments were then made to individuals represented at the day's meeting, in order that a new draft of the bulletin on Asbestos be compiled by at least February 1, 1961:

1. Introduction (this section on Introduction to be written after all other sections have been completed).

2. Properties of asbestos - realizing that this is the most important section of the document, special emphasis will be placed on incorporating pertinent information which is meaningful to the designer and potential customer. R. T. Crouch of Johns-Manville Research is to coordinate the preparation of a redraft of the section on Properties of Asbestos Reinforced Plastics.

Mr. Crouch is to prepare a first draft of the information and circulate this draft to all those present at the day's meeting by no later than February 1. It is quite possible that during the 16th Conference of the SPI Reinforced Plastics Division, Mr. Crouch will get together with certain members of the Committee, in order to go over a subsequent draft of this document.

3. T. E. Holdridge of Raraco Materials is to rewrite the section on History and, again, is to circulate a proposed document to all those present at the day's meeting by February 1.

4. Fiber characteristics - M. C. Shaw of Asbestos Textile Institute is to redo the draft on Fiber Characteristics, circulating it to all those present by February 1.

5. References - Messrs. Crouch, Holdridge and Shaw, are to obtain throughout the revision work, references of existing literature on asbestos, so that these references may be placed at a later date as a final section in the bulletin when it is approved as a formal document.

The meeting was adjourned at 2:00 p.m.

Respectfully submitted,

Charles L. Condit, Secretary

CLC:brv

SPI 0191