PLAINTIFF'S EXHIBIT P-128

MINUTES
of the
TECHNICAL & RESEARCH COMMITTEE MEETING
NATIONAL INSULATION MANUFACTURERS ASSOCIATION
New York, N. Y. June 22, 1960

Rock & Slag Section Glass Section

Chairmen K. M. Ritchie and M. W. Keyes called the meeting to order at 9:30 A. M. with the following in attendance:

K. M. Ritchie, Chairman	Baldwin-Ehret-Hill, Inc.
M. W. Keyes, Chairman	Pittsburgh Plate Glass Company
T. S. Clousing	M. H. Detrick Company
C. E. Ernst	Johns-Manville Sales Corp.
W. Gubar	Gustin-Bacon Mfg. Company
P. L. Losse	The Eagle-Picher Company
R. L. Schneider	Owens-Corning Fiberglas Corp.
J. M. Barnhart	National Insulation Mfrs. Assn.

REVISIONS TO ASTM SPECIFICATIONS

1. ASTM C 262 - Mineral Wool Batt Insulation (Industrial Type)
2. ASTM C 263 - Mineral Wool Blanket Insulation (Metal Mesh Covered) Industrial Type
3. ASTM C 280 - Mineral Wool Blanket-Type Pipe Insulation
4. ASTM C 281 - Mineral Wool Molded-Type Pipe Insulation for Elevated Temperatures

These specifications were reviewed in detail and the following changes were made. The specifications will be circulated to the Committee for approval and/or comment prior to the next ASTM meeting.

The word "fiber" will substitute the word "wool wherever it appears in the specifications.

1. ASTM C 262

Under "Scope", it was suggested that the specification could be expanded to include ceramic materials. The member manufacturers of the Association that produce this material will be contacted to determine whether or not they wish their product to be included.

The "Scope" shall be changed to include the words "for use on surfaces operating continuously".

"Description", paragraph 2(b), Composition, shall be changed to read "The fiber shall be of mineral substance such as rock, slag or glass processed from a molten state into fibrous form".

Under "Physical Requirements", paragraph 4(b), Thermal Conductivity, the "k" values, average, max., shall be expressed at mean temperatures of 100, 300 and 500 F.

Paragraph 5(a), "Standard Sizes and Dimensional Tolerances", shall be changed to read "Standard sizes of mineral fiber industrial batt insulations are given in Table I. Other sizes are available from the man ufacturers."

Paragraph 6, "Workmanship", shall be changed to read "Since several requirements for this material are not easily defined by a numerical value, these products shall not have visible defects, that will adversely affect its service qualities".

Paragraph 9(b), "Marking", shall read "Unless otherwise specified, container shall be marked with the supplier's name and designation, size, nominal thickness and square feet of the material in the container".

2. ASTM C 263

Paragraph 1, "Scope" shall read "-----for use as thermal insulation on surfaces operating continuously at temperatures up to -----".

Paragraph 2(a) "Definitions" shall read "-----covered by flexible metal fabric facings on one or two sides and held together-----".

Paragraph 2(b) "Composition" shall read "The fiber shall be of mineral substances such as -----".

Paragraph 2(c) "Facings" shall read "-----Other types or compositions of facings required for temperature and/or corrosion resistance, such as nonel metal or stainless steel, may be specified. -----Where two facings are required the facings of each unit -----".

Paragraph 3(a) "Density", shall read "Density (without facings)(average) max., lb per cu ft -----12".

Paragraph 3(b), "Thermal Conductivity", the "k" values (average) max., shall be expressed at mean temperatures of 100, 300 and 500F.

Paragraph 4(a), "Standard Sizes and Dimensional Tolerances", shall read "-----Other sizes are available from the manufacturers".

Paragraph 8(b), "Marking" shall read "-----size, nominal thickness and square feet of material -----".

3. ASTM C 280

Paragraph 1, "Scope", shall read "----- on piping operating continuously at temperatures -----".

Paragrapj 2(b), "Composition", shall read "The fiber shall be of mineral substances such as rock, slag or glass -----".

Paragraph 2(c) "Facings", shall read "-----Other types or compositions of facings required for temperature and/or corrosion resistance, such as nonel metal or stainless steel, may be specified -----".

Paragraph 2(d), "Metal Jackets" shall be deleted.

Paragraph 3(b), Density (without facings)(average) max., lb per cu ft shall be changed to 12.

Paragraph 3(b) "Thermal Conductivity", the "k" values (average) max., shall be expressed at mean temperatures of 100, 300 and 500 F.

Paragraph 4(b), "Tolerances" shall be rewritten to express the proper width of the insulation.

Paragraph 7, "Methods of Test", the density only will be determined as per ASTM C 167.

Paragraph 8(b), "Marking", shall read "----- pipe size, thickness and linear feet of material -----".

4. ASTM C 281

Paragraph 1, "Scope" shall read "-----as thermal insulation on piping continuously operating at -----".

Paragraph 2 (a), "Composition", shall read "The fiber shall be of mineral substances such as -----".

Paragraph 2(c) shall be titled "Jackets (Facings)" and shall read "-----pipe insulation shall be jacketed or plain and, if jacketed, shall -----".

Paragraph 2(d), "Accessories", shall read "bands, seal strips, etc., will be supplied when and as specified -----".

Paragraph 3(b), "Density", shall be 9.0.

Paragraph 3(c), "Thermal Conductivity (average) max., "k" values shall be expressed at 70, 100 and 200 F.

Paragraph 4(b), "Tolerances" shall read "-----Sections shall fit snugly and have tight longitudinal and circumferential joints when properly installed on pipe of the specified size."

Paragraph 5, "Workmanship", shall read "Since some requirements for this material are not easily specified by a numerical value, the insulation shall not have visible defects that will adversely affect its service qualities".

REVIEW OF FEDERAL SPECIFICATIONS

Several Federal Specifications, including HH-I-552 and HH-I-562, were deemed to be in the need of revision, and drafts of the revisions will be prepared as soon as possible.

MILITARY SPECIFICATION MIL-I-2908A, CEMENTS

A draft of this specification was distributed to those present and comments will be solicited from the manufacturers of this product type.

ADJOURNMENT

There being no further business, the meeting was adjourned.

Respectfully submitted

J. M. BARNHART