

August 7, 1949

File 45752-27b

C. F. [illegible]
A. [illegible]
H. [illegible]
C. E. Burnett, GE
J. S. Crawford, GE
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Product Proposal 348, Supplement 1
Change in Grade of Blue Asbestos Fiber for Style 83-S Sheet
Report 457-441
Problem 51-457-05

Recommendation:

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- A. It is recommended that a grade of blue asbestos fiber obtainable from the Asbestos Corporation of America be adopted as the standard grade in the manufacture of Style 83-S sheet packing at Manville. This fiber is described in report 457-441, which contains a proposed specification for the screen analysis, etc. It is the same fiber as used in Style 84-S sheet at Waukegan.
- B. It is further recommended that the tensile requirement on this sheet packing be relaxed from 2000 psi to 1400 psi longitudinal, and from 600 psi to 500 psi transverse.

Reason for Recommendation:

The procurement situation on blue fiber of suitable characteristics for use in this product is tight. The grade proposed is the only suitable fiber known to be available.

Reason for Management Review:

- A. The proposed fiber grade is now successfully being used as a substitute for that shown on the manufacturing specification. This emergency substitution was authorized on a deviation slip basis in February, 1949, because of the unavailability of the standard fiber. Approval of the [illegible] retire the deviation slip authorization and permit [illegible] specification to the new grade of fiber.
- B. [illegible] requested that the present finished product [illegible] and revised to show reduced tensile strength limits in line with the values observed in this product during the last four years, when the change was made from natural to butyl rubber.

The present values in the finished product specifications of 2000 psi longitudinal and 600 psi transverse were based on the old natural rubber bonded Style 83 sheet. Revised values of 1400 psi and 500 psi are suggested as being more realistic minimum values for the synthetic rubber bonded sheet.

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The tensile strength, elongation, and appearance of the Style 83-S made this year with the proposed fiber have been within the limits observed for the butyl rubber standard product. No major change in physical properties or appearance is anticipated as a result of adoption of the new fiber.

Manufacturing Problems:

No new problems anticipated.

New Equipment:

None required.

New Materials:

Fiber grade, as explained above.

Relative Costs:

The new fiber is somewhat more expensive than the previously used Caps. 8 & 31 which is now unobtainable. Cost data on the product made with the proposed fiber are on file in the Knoxville Cost Department.

[Signature]
F. C. Koch

ob

E. R. Williams
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K. F. [unclear]
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