

MV 2 & D 1990

Memorandum

Division Headquarters
September 9, 1958

Thermobestos

On September 9, Messrs. Himmon, Jobe, Eaton, Dobson, Gaches, McCarty, Blair, Rademaker and MacAlpine discussed the pros and cons of the Kaylo and Thermobestos methods of manufacturing lime silica insulation.

The following summarizes briefly, the advantages and disadvantages of the two processes as discussed:

A. Advantages of Kaylo

1. Excellent opportunity for cost reduction
2. Combined autoclaving and drying
3. Wet processing of fiber
4. High chrysotile fiber content
5. Quick lime
6. Uses sand as a raw material
7. Apparent rapid processing of orders
8. Smaller space requirements
9. Sections nest well

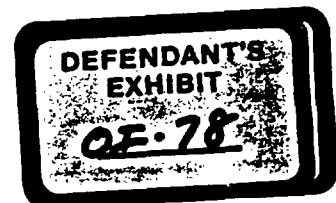
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B. Disadvantages of Kaylo Process

1. Higher "K" factor
2. Cannot pan cast small sizes
3. Repairs to pans
4. Uses a parting agent
5. Uses a cardboard liner
6. Can make only a limited number of each size
7. Apparently must maintain moisture in product before autoclaving
8. Large number of individual molds required
9. Blow holes in product
10. High trim loss in finishing
11. Apparently must maintain a high inventory
12. No hard surface skin on the product
13. Broken corners
14. High labor cost on block
15. Quality below ours in general
16. Poor appearance
17. No large sizes
18. Dependent on human element

C. Advantages of Thermobestos Process

1. Lower conductivity
2. Less dependent on human element
3. Hardness
4. Cleanliness
5. General appearance
6. Better blocks



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C. Advantages of Thermobestos Process

7. Large pipe sizes available

D. Disadvantages of Thermobestos Process

1. Cooking of jell
2. Frequent process checks
3. Delamination
4. Process cannot make K-20 (debatable)
5. Process cannot make formula changes (debatable)

E. It was the contention of those present that the following should be done:

- A. Make a dimensional survey on Kaylo (assigned to Don Gaches).
- B. Send Thermobestos to Kaylo for test in the autoclave - drying combination. (D. L. Himmon to contact M. Briley)
- C. Consideration to be given to research projects on combined autoclaving and drying, wet processing of fiber, increased chrysotile content, use of quick lime, and the effects of maintaining a moisture content before autoclaving.

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cc:

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