



THE DOW CHEMICAL COMPANY

July 17, 1969

As a result of his survey, Mr. DeGesero has made up a table showing under what conditions and with what materials an approved respirator must be worn. This table has been reproduced on a small card and each one of you will receive a copy. (Show transparency on the screen.)

I think you all know that there is a very good replacement for Aircell and that is Fiberglas. Fiberglas is more than twice as effective as Aircell as an insulating material and contains no asbestos. (K factor .61 versus .29) Fiberglas is being used in every Dow division except here at Midland. Actually, Aircell should not be used on any job except for personnel protection. It is not designed for temperatures higher than 200° F. and we know it is commonly used on lines traced with 150# steam (375° F.)

At the present time we are trying out an expanded silicone (perlite) type of insulation called Careytemp 1500. This material does contain about 6% asbestos which is about the same as Kaylo; however, it is not supposed to be nearly as dusty. The Phillip-Carey Company has been doing some work on eliminating completely the asbestos from this material. More information on this material will be forthcoming as soon as an evaluation can be made.

Hi-temp is a diatomaceous earth type of insulation which contains about 15% asbestos. There is no non-asbestos substitute for this material on very high temperature applications; however, its use is rather limited and it should not present a real problem.

Mag Oxide is another fairly high asbestos containing insulation which, at present, is not being used to any great extent here in the plant.

Mineral wool insulating cement commonly known as Webber's Cement contains about 10% asbestos and is quite dusty when being mixed with water. It has been suggested that the dry material be made up in batches large enough to last for a week or two. This would eliminate the need for a respirator each time the material is used. The use of Armentite is small enough so that making up large batches would not be warranted except in special cases.

Every major manufacturer of insulation has been contacted with regard to new products available, etc. This practice will be continued and any time we can find a new product that will be more effective or easier to work with, it will be brought into the plant for your use.

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ST00000299

DOW 00095

MINIMAL RESPIRATORY PROTECTION REQUIREMENTS

Material	Remove	Mix	Cut	Apply
Air Cell	X			X
Kaylo (Cal sil)	X		X	X
High Temp.	X			
Mag Oxide	X			
No. 1 Plus (Webbers)		X		
Armentite (Asbestos Shorts 352)		X		
Super Power				
Thermobestos				
Fiberglass				

ST0000300

1. You ~~shall~~ wear a respirator* when doing the above operations marked "X"

2. You ~~should wear~~ respirator* ~~on any job where asbestos is present~~

EA Dustloc or Sure Guard (R-2090) are the only allowed types.