Johns-Manville Corporation

Greenwood Plaza
Denver, Colorado 80217

Environmental Affairs Department

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May 29, 1973

Mr. Theodore Fedkew
Xerox Corporation
Xerox Square
Rochester, New York 14603

Dear Mr. Fedkew:

We have completed our evaluation of the asbestos fiber dust levels generated during handling of your part 57P118 machined from our MARINITE 65.

Three tests were performed utilizing the procedure described in my letter of May 3, 1973. Results of the tests are as follows:

Test #	Duration	Fibers per cubic centimeter greater than 5 microns in length
1	15 minutes	1.6
2	15 minutes	1.1
3	30 minutes	2.2

I enclose a copy of the first ENVIRONMENTAL FACTS/ASBESTOS booklets that we have prepared. This one is the Report of the Advisory Committee on Asbestos Cancers. I will send you additional booklets on the subject of asbestos and health as soon as they are published.

Very truly yours,

Edmund M Fenner

Edmund M. Fenner, Director
Technical Relations

EMF/emr

Enc.

bcc; Hebert
C. Wilson
C. Fahrenkrug

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Johns-Manville Corporation

Greenwood Plaza
Denver, Colorado 80217

Environmental Affairs Department

May 3, 1973

Mr. Theodore Fedkew
Xerox Corporation
Xerox Square
Rochester, N. Y. 14603

Dear Mr. Fedkew:

Thank you for your letter of April 27, 1973.

I have arranged for the machined sample of MARINITE 65 (your part 57P118) to be evaluated for dust generation during handling. We will repeat basically the same tests we did with the plain sheet, i.e., have one of our research technicians handle the piece, pick it up, put it down, rub his hands over the surface, rub his hands together; doing this for periods of 15, 20 and 30 minutes. During the test period the technician will wear a personal air sampler of the type specified under the monitoring provisions of the OSHA regulations.

The filters from the personal air sampler will be microscopically analyzed for fiber and the results translated into fibers per cubic centimeter of workplace air. The microscopic analysis will also be performed in accordance with the monitoring requirements of the OSHA regulations.

As soon as the tests are completed, I will forward the results to you.

I have read your inter-office memorandum and have the following comments:

(1) In summarizing my remarks you state first "Insulators using asbestos could use two basic types". What I had intended to say was that products containing asbestos could use four different varieties, one of which is crocidolite (blue fiber), an amphibole asbestos considered to be biologically the most hazardous. Chrysotile (white fiber), a serpentine asbestos, which represents approximately 95% of all fiber used in the United States, is considerably less biologically active.

(2) In the last paragraph I had intended to say asbestos products come in two general groupings:

(a) The loosely bound group, where in some products the asbestos is being replaced by different mineral, other natural and synthetic fibers.

(b) The firmly bound group, products over 50 lb density. MARINITE 65, with 65 lb density, would be in the firmly bound group.

(3) I told you that MARINITE 65 contained 60% chrysotile asbestos. I find actually it has 55% chrysotile asbestos.

(4) I had discussed with you the conversion through heating of chrysotile asbestos fiber to an amorphous material known as forsterite, stating that the conversion occurred at 400C. Our Research Center has informed me that this conversion actually occurs at 600C.

Our Product Manager for MARINITE informs me that we are working on the development of a heat treated MARINITE in which the asbestos will have been converted to forsterite, rendering the product biologically inert.

The papers I quoted from are being put into booklet form by Johns-Manville. I will send you copies as soon as they are finished.

Very truly yours,

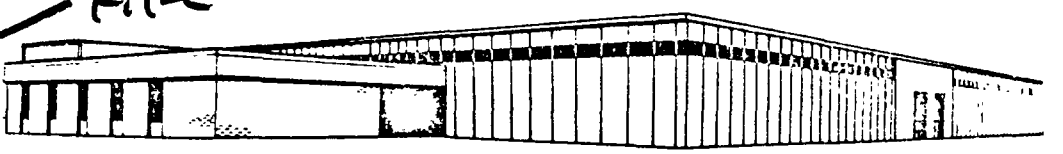
Edmund M Fenner

Edmund M. Fenner, Director
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MARINITE 65
DUST LEVELS DURING HANDLING

TEST A	15 MIN.	1.6 Fibers/CC
TEST B	15 MIN.	1.1 Fibers/CC
TEST C	20 MIN.	0.8 Fibers/CC
TEST D	30 MIN.	1.1 Fibers/CC
TEST E	30 MIN.	0.7 Fibers/CC

MAXIMUM ALLOWABLE (TLV) 10 Fibers/CC