

Mr. G. Mather

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63 Sheet Packing Made with J-M Processed Blue Fibre
Mr. J. J. Falumbo
Date: Sept. 20, 1954 - Trial Run Manufactured 9/20/54

RESULTS:

As ordered by CP 521-076, one ton of CB-300 Blue Fibre was processed in Research by Mr. J. J. Falumbo and inspected by Mr. J. J. Falumbo. On Sept. 20, three trial sheets were made in Paper Mill using this fibre in place of the Standard M.C.C.A. (Asbestos Corp. of America) processed fibre with the following results:

- a) There were no operating difficulties in the Paper Mill except in the removal of the CB-300 Fibre from burlap bags. The sheets were run to a wet thickness of .080" optimum, range .075 - .085". The average shrinkage from wet to dry was 11.5%.
- b) All sheets, after one calendaring operation complied with Finished Product Specifications.

CONCLUSIONS:

It is possible but may not be economical to manufacture 63 Sheet Packing using CB-300 Blue Fibre or equivalent processed in a standard J-M mill; such that resultant fibre complies with Pur. Spec. 61925-1 M & W.

DISCUSSION:

Fibre -

Korea Blue No. 300 from the Korea Corp. was the desired fibre for this trial run, but since it was not available at the time, CB-300 Blue was used. Five passes through a standard Johns-Manville mill were required before the product was sufficiently opened to be acceptable by E. J. Falumbo. (See letter from M. S. Badollet to G. W. Mather, File 411, Sept. 17, 1954). It conformed to Pur. Spec. 61925-1 with the exception of fines -200M. Pur. Spec. 61925-1 was originally set up on Australian Blue processed by the Asbestos Corp. of America.

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PLAINTIFF'S
EXHIBIT

20,518

DISCUSSION:- Cont'd.

Ten sheets were selected at random, numbered and followed through each operation.

Net Sheet Thickness - averaged 0.080" with a spread of .072 - .087".

Dried (uncalendar) Sheet Thickness - averaged 0.071" with a spread of 0.064 - .078".

Moisture - (From Wet to Dry) - averaged 11.5%.

Calender of Calendared Sheets - was found to average 0.067" ranging from 0.062 - .073".

Weight - of numbered sheets averaged 6.2 lbs. with a spread of 5.5 - 6.7 lbs.

Physical and Chemical Tests - indicate that the material complies with the following Finished Product Specifications pertaining to:
Tensile Strength, Water Absorption, and Ignition Loss.

Appearance - Surface of sheets was excellent, smooth and uniform, and unmarred from surface blemishes such as creases, folds, and handling marks.

DATA:-

Fibre Analysis - (McIlvett Wet Screen Test)

	+14M	+28M	+100M	+200M	+300M	Test 3 +300M
Specimen 07 921-075	43.8% ± 50.2% ±*	7.3% ± 7.6% ±**	9.2% ± 9.2% ±**	6.2% ± 7.8% ±*	24.5% ± 23.2% ±**	100%
Specification - based on A.C.C.A. prepared fibres	30-50%	0-13%	0-16%	0-16%	25-56%	

* McIlvett test by W. Hesterhagen, Control Laboratory.

** Research analysis.

Tensile Strength

	<u>Uncalendar</u>	<u>Calendar 1 pass</u>	<u>Finished Product. Spec.</u>
M.D.	1463 psi	1542 psi	Min. 1200 psi
C.M.D.	720	661	700

Ignition Loss

76.4%

50% max.

Water Absorption

- 24 hr. submersion

Av. 9.36

15.7% after 72 hrs. submersion

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DATA: - 10/12.

Was obtained by T-514g. Inspectors. Was entered every consecutive sheets, every twelfth sheet.

Thickness after 1 pass through calendar

... (37) 0.067"

Thickness Prod. Spec.
0.070 - 0.078"

Weight per sheet

... (37) 9.5g

5.1 - 1.2g

pec.

APPROVED: R. Jacobs

PREPARED BY: John C.

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