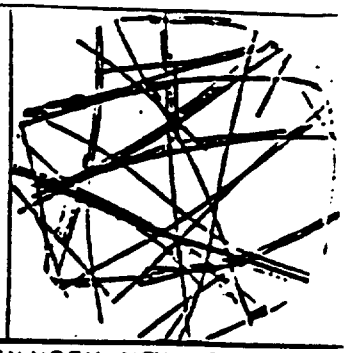
ASBESTOS

PRODUCT INFORMATION BULLETIN

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Photomicrograph of Union Carbide's high-purity asbestos fiber



UNION CARBIDE CORPORATION • MINING AND METALS DIVISION • 270 PARK AVENUE, NEW YORK, NEW YORK 1003

PLAINTIFF'S EXHIBIT

UC-4834

THE USES OF HIGH-PURITY ASBESTOS IN PAPER

How various paper companies have benefited by using high-purity asbestos:

Softness and Surface Feel Improvement:

1. Superior handfeel and softness qualities not obtainable before the use of high-purity asbestos.
2. Elimination of expensive synthetic fibers used for softening.
3. Improved drying and release properties at the creping dryer.
4. More waste paper and less expensive chemical pulps could be used.
5. Elimination of expensive softer pulps.
6. High quality tissue could be made with Southern Kraft pulps.
7. Formation improvement as well as softening -- two factors that are diametrically opposed in normal papermaking.

Pitch Control:

1. Less rejections for holes due to pitch deposits.
2. Cleaner system and more efficient operation.
3. Cleaner felts and wires.
4. Fewer machine breaks and lost time.

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Retention of TiO_2:

1. Substantial cost savings and reduced pollution.

DEPO. EXH. 18
3/10/89
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Newsprint Opacity Improvement and Printing Gains.

Board Coverage and Printing Gains:

1. Less expensive furnish required for the top liner.
2. Reduced TiO_2 requirements for the top liner.

DEPO. EXH. 17
KIRBY A. KENNEDY
COURT REPORTER

3. Improved uniformity of formation.

4. Improved top liner smoothness.

5. Indications of improved printability.

Improved Saveall Efficiency:

Typical case histories illustrating improved efficiency in saveall.

Company "A"

Condition	Effluent (lbs. solids/1000 gal)
Before Asbestos Addition	2.2
During Trial (1-2% Asbestos)	1.5
After Trial	2.4
Reduction in Solids Losses =	35%

Company "B"

Condition	Effluent (lbs. solids/1000 gal)
Before Asbestos Addition	3.25
During Trial (2.5% Asbestos)	0.55
Reduction in Solids Losses =	83%

Note: Separan used before and during trial.

Company "C"

Condition	Saveall - (lbs. solids/1000 gals) Influent	Effluent	
Before Asbestos Addition	17.9	4.36	
During Trial (2% Asbestos)			
1.0 hr.	14.3	1.15	
2.0 hr.	13.2	0.90	
3.0 hr.	11.0	0.71	
After Trial	21.4	6.00	
Average:			
Without Asbestos	19.65	5.18	74%*
With Asbestos	12.83	0.92	93%*
Reduction in Solids due to Asbestos =	35%	82%	

*Recovery of solids to the Saveall.

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