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C. W. Mathes - Manville

PREPARATION OF BLUE FIBER FOR NO. 83 SHEET PACKING
CP921-076

The original idea was to use Africa Norca Blue No. 300, as it is the cleanest of the AfricanBlue fibers. Since this fiber was not available, the plant sent us CB300 Blue, which is somewhat similar to S Blue from Africa.

AC-3 MB

The method of processing consisted of the following:

1. A standard Johns-Manville willow, using the regular spring steel blades.
2. The speed was 1000 rpm, using a 75 hp motor.
3. The feed rate was kept at one ton per hour.
4. Any fines, such as dust, were collected in a baghouse.
5. Samples of the original fiber, and after each pass, were examined and compared with the specification, and also by Mr. E. J. Palumbo who is aquainted with the use of Blue in No. 83 sheet packing.

Specification Based upon Australian Blue Prepared by ACOA:

	2M	4M	10M	Pan
Quebec Screen	4.0	10.0	1.0	1.0

Wet Screen	+14M %	+28M %	+100M %	+200M %	-200M %	Rock Crudy +14M %
	30 to 50	0 to 13	0 to 16	0 to 16	36 to 56	2 max.

Tests on Product Prepared by Research:

	Quebec Screen 2M oz	4M oz	10M oz	Pan oz	Wet Screen +14M %	+28M %	+100M %	+200M %	-200M %	Rock +1
Pass 1	9.9	4.0	[illegible]		55.9	8.4	8.0	5.1	22.6	2
2	11.6	2.8	[illegible]	0.7	49.5	5.8	10.4	9.5	24.8	1
3	13.1	2.1	[illegible]	0.2	48.8	8.5	9.5	7.8	25.4	
4	14.6	0.8	[illegible]	[illegible]	50.7	8.7	9.8	8.4	22.4	
5	14.0	1.6	0.2	0.2	50.2	7.6	9.2	7.8	25.2	
Product from ACOA (Australian Blue)					38.4	4.2	6.2	4.4	46.8	

Product Recovery:

Fifth Pass	Feed	CB300	2000 lbs	
	Product shipped Gleason	35 bags at	50 lbs each	1750 lbs
		2 bags at	40 lbs each	80 lbs
		1 bag at	30 lbs	30 lbs
		TOTAL		1860 lbs

Losses - Fines and Dusts 140 lbs or 7 per cent
Recovery 1860 lbs or 93 per cent

PLAINTIFF'S EXHIBIT 10875-01

PLAINTIFF'S EXHIBIT WV-04587

Product Inspection:

Each pass product was examined, and the data compared with the specification. It was not until the fifth pass that the product was sufficiently opened to be acceptable by Mr. Palumbo, as regarding the quantity of unopened bundles and rock. This number of passes would be considered out of reason and expensive, however, it will serve as a background on the amount of work necessary to prepare this grade of fiber when using existing willowing equipment.

We suggest that this fiber be used for making No. 83 sheet packing in order to determine the value of this product.

It is also possible that the number of willow passes may be considerably reduced if the quantity of crudy bundles do not need to be reduced to two per cent maximum

Recommendation:

We recommend that the next batch of fiber be selected from the NC300 shipment, and that this preparation be repeated. Also that when the next processed blue is used at the paper mill, that the beater will be lowered so as to brush out the unopened pencils that are not completely opened by the willowing process. If the beater roll could help brush out the fiber bundles, then the willowing process may be reduced to two.

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