

TEST REPORT

Date: [REDACTED]

Product: [REDACTED]

Customer: [REDACTED]

Equipment: Slipstick conveyor with a #8 mirror finish

Purpose: - To test for deposits left on pan after running for extended period of time.
- Observe any changes in travel rates

Procedure: [REDACTED] – A recirculation-loop was constructed in the lab using a 30”wide x 8” deep distribution Slipstick (with a #8 finish), an 18”wide x 8” deep cross conveyor (with a 2B finish), and an inclined belt conveyor. An Easy-Clean slide gate was used to meter product from the distribution conveyor to the cross conveyor. Approximately 1.5” of product was placed in the loop and allowed to run continuously for 45 minutes. Travel rates were acquired on the distribution and cross conveyors before the gate was closed and the product was discarded into a waste bin. The pan was then filled again with fresh product and the process was repeated every 45 minutes for eight hours. At the end of the day, a 6” product bed depth was introduced into the pan and three travel rate trials were run.

[REDACTED] – Continued with the same procedure used the previous day. The cross conveyor was cleaned in the morning while the distribution conveyor remained untouched. Total run time was approximately 7 hours.

[REDACTED] – Ran product for 2 hours then terminated the test.

Results: We found that the build-up on the 2B finish was substantially higher than on the #8 finish, however, deposits could be easily wiped away with a rag on both conveyors. While we didn't lose any of our travel rate on the distribution conveyor, the product speed did slightly decrease on the cross conveyor. All trials are summarized below:

Distribution Conveyor

<u>Trial #</u>	<u>Bed Depth</u>	<u>Travel Rates(ft/min)</u>	<u>Average Rate</u>
1	1.5"	27.29, 27.07, 27.49	27.28
2	1.5"	25.97, 25.18, 25.83	25.66
3	1.5"	28.22, 28.11, 28.65	28.32
4	0.75"	30.54, 30.30, 30.42	30.42
5	0.75"	31.18, 31.08, 30.86	31.04
6	0.75"	35.16, 34.80, 34.40	34.78
7	0.75"	30.33, 31.02, 30.89	30.74
8	0.75"	35.21, 35.04, 35.29	35.18
9	0.75"	35.50, 35.12, 35.00	<u>35.20</u>
		Total Avg.	30.95 ft/min
10	6.0"	28.38, 28.11, 28.22	28.23 ft/min

Cross Conveyor

<u>Trial #</u>	<u>Bed Depth</u>	<u>Travel Rates(ft/min)</u>	<u>Average Rate</u>
1	2.0"	23.12, 22.51, 23.71	23.11
* 2	1.5"	24.34, 24.43, 23.21	23.99
3	1.5"	22.98, 23.66, 23.12	23.25
4	1.5"	22.55, 21.89, 21.69	<u>22.04</u>
		Total Avg.	23.09 ft/min

* Pan was cleaned after the first trial.

Conclusions: It can be said with a high percentage of confidence, that the #8 finish will greatly improve [REDACTED] current sanitation schedule of one cleanout every 2 shifts. Even with a small amount of build-up on the pan, the travel rates remained consistent.