

(1)

trehalulose(가

)가

Suessen Fiomax 1000

Suessen EliTe

가 , 가 , , ,

.

, High Speed Stickiness Detector(

H2SD) 26

. 가 H2SD 12

. 가

가 H2SD 12

가 .

가 . , ,

High Volume Instruments(HVI)

.

. HVI

.

,

.

, 가 .
 . Hendrix 가
 .
 .
 melezitose trehalulose
 .
 trehalulose
 melezitose 가
 melezitose trehalulose가 trehalulose가 가
 .
 .
 , ,
 가 . (,
 , , ,)
 가 .
 .
 .
 . Gutknecht
 . Frydrych
 . Price
 (21.1 , RH 80%) (1.2%)
 (23.9 , RH 55%)

•

.

가 trehalulose가

. (melezitose) 가

(trehalulose)

. 가

.

1

1 Saco Lowell Rieter R20

. 가

1 .

21 H2SD 가 73

. 2가 4

Aph 10, Aph 20, WF 10, WF 20 . Aph 10

150lbs 150lbs .

Aph 20 300lbs . WF 10 가

43lbs 257lbs .

WF 20 가 86lbs 214lbs

. , , 1P 2P HVI

H2SD < 1> .

< 1> 4가

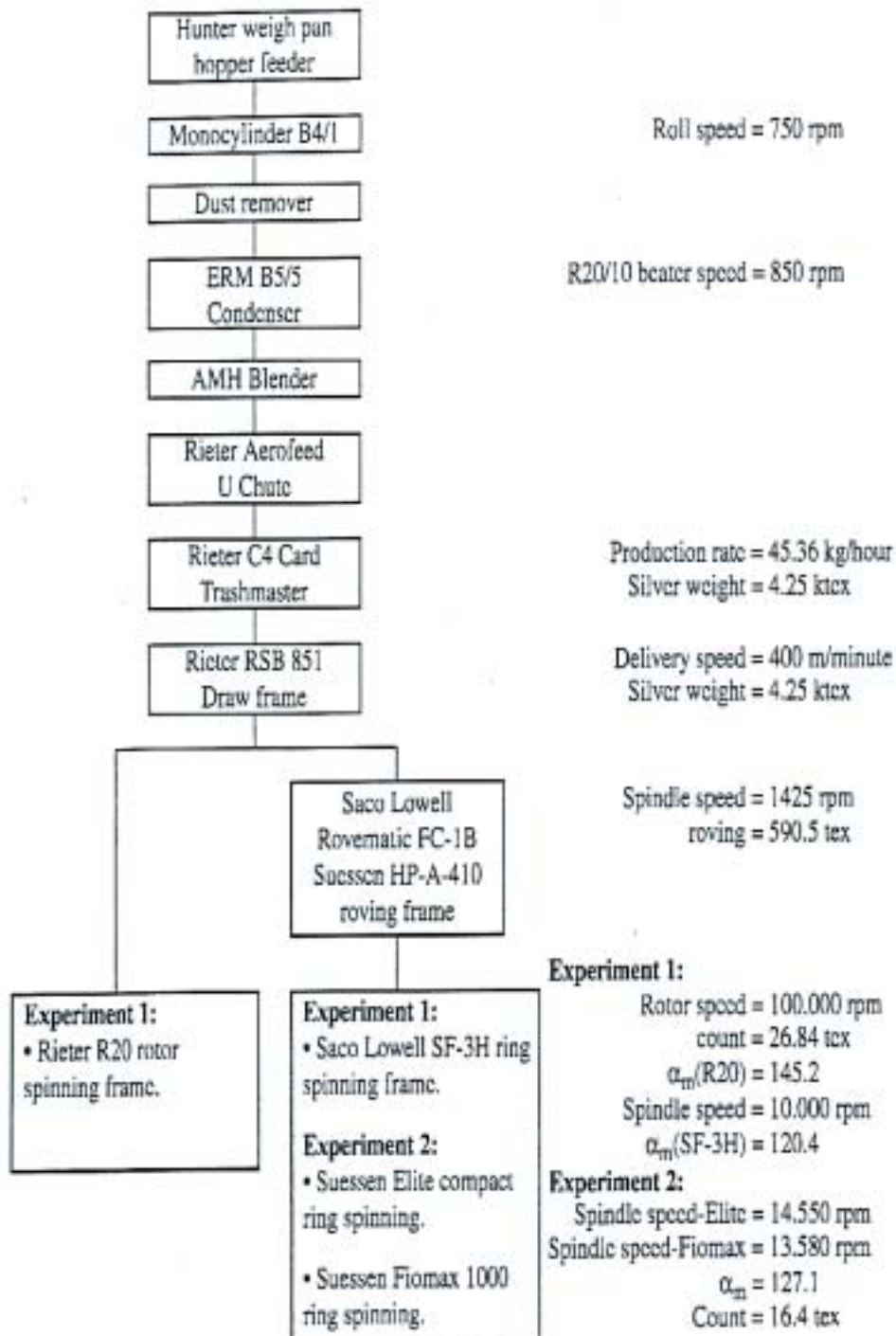
. 26.84tex(22Ne) .

(doffing)

(26 ,

20

)



< 1> 4가 HVI H2SD
(Aph= , WF=가)

Mix ID	Machine position	Mike	UHML mm	Unif. %	Strength cNtex	Elong. %	Leaf	Rd %	+b	H2SD
Aph10	Raw									10.5
Aph10	Chute	4.5	24.9	78.6	23.4	6.8	1.0	75.6	11.0	12.7
Aph10	Card web	4.5	24.9	80.2	24.9	6.7	1.0	75.6	11.1	12.1
Aph10	Sliver DI	4.5	25.1	81.3	26.5	5.9	1.0	75.6	11.0	15.1
Aph10	Sliver DII	4.5	25.7	82.1	28.2	5.7	1.0	75.6	11.1	14.8
Aph20	Raw									21.0
Aph20	Chute	4.6	24.4	79.3	23.7	7.2	1.0	76.0	10.4	20.3
Aph20	Card web	4.4	24.6	80.0	25.3	6.7	1.0	75.8	10.4	21.2
Aph20	Sliver DI	4.5	25.1	80.8	26.1	6.1	1.0	75.9	10.4	21.9
Aph20	Sliver DII	4.6	25.4	81.6	26.5	5.6	1.0	76.0	10.4	23.4
WF10	Raw									10.5
WF10	Chute	4.8	25.4	79.3	22.9	6.7	1.0	76.1	10.8	15.3
WF10	Card web	4.7	25.4	80.2	24.7	6.5	1.0	76.0	10.7	16.6
WF10	Sliver DI	4.8	25.7	81.4	26.6	5.7	1.0	76.2	10.8	21.0
WF10	Sliver DII	4.8	26.2	81.8	27.8	5.5	1.0	75.7	10.5	19.9
WF20	Raw									20.9
WF20	Chute	4.9	25.7	79.3	22.7	6.6	1.0	76.1	10.8	29.5
WF20	Card web	4.8	25.7	79.9	24.7	6.5	1.0	75.8	10.9	35.8
WF20	Sliver DI	4.8	25.9	80.9	26.7	5.8	1.0	75.6	11.1	31.9
WF20	Sliver DII	4.8	26.7	82.3	28.8	5.7	1.0	75.8	11.1	32.1

2

2 Suessen Fiomax 1000 Suessen EliTe

가

1

가

2

H2SD

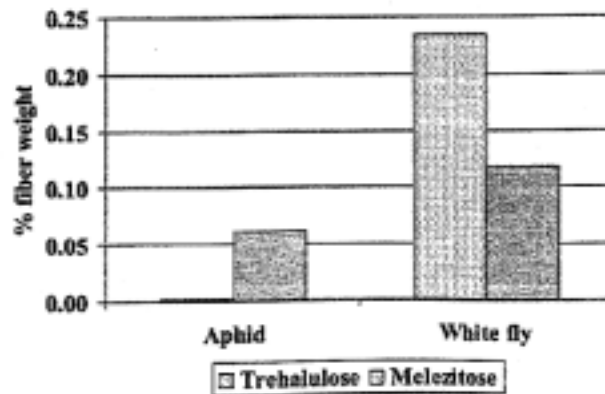
45.8

, 가

26.1

trehalulose melezitose

< 2>



< 2> 2가 trehalulose melezitose
(%)

4가 8 . 4가 Aph
3, Aph 11, Aph 20, Aph 26 .

4가 WF 4, WF 12, WF 20, WF 26 가

. HVI, High Performance Liquid Chromatography(HPLC
) , H2SD . HVI

4 , 10 H2SD 9 , HPLC
3 < 2>. HVI (5)

H2SD

< 2>.

8 < 1> ,
. , Saco Lowell Rieter R20

Suessen Fiomax 1000 Suessen EliTe .

16.4tex(36Ne) . (8

×30 ×2 =480).

< 2> 8가

HPLC, H2SD, HVI

(Aph= , WF=가)

Mix ID	Mix type	HPLC [‡]	H2SD	Mike	UHML mm	Unif. %	Strength cN/tex	Elon. %	Leaf	Rd %	+b
Aph3	Aphid honeydew contamination	0.224	2.5	4.0	30.0	83.1	31.7	5.5	1.0	79.9	11.1
Aph11		0.279	11.2	4.0	30.2	83.4	31.7	5.6	1.0	79.8	11.1
Aph20		0.334	19.8	4.1	30.2	83.2	31.5	5.5	1.0	79.6	11.0
Aph26		0.376	26.3	4.0	30.5	83.4	31.7	5.6	1.0	79.4	10.9
WF4	Whitefly honeydew contamination	0.164	4	4.5	27.9	82.2	29.0	5.7	1.0	75.7	10.4
WF12		0.348	11.7	4.7	27.7	81.4	28.0	5.9	1.0	75.8	10.2
WF20		0.533	19.5	4.8	27.7	81.3	27.6	6.1	1.2	75.7	10.0
WF26		0.691	26.1	4.7	27.9	81.6	28.2	6.0	1.2	75.8	10.3

‡ (%)