

## INTERNAL CORRESPONDENCE

TO MR.	<u>C. I. McCARTY</u>		
DEPT.	<u>R. M. HEYWARD</u>	<u>DR. R. A. SANFORD</u>	<u>D. L. HAVERSTOCK</u>
C. C. to MR.	<u>DR. I. W. HUGHES</u>	<u>C. L. DONECK</u>	<u>G. C. LONG</u>
" "	<u>L. T. HAAG</u>	<u>T. D. BARKER</u>	<u>W. L. SCHERMERHORN</u>
" "	<u>C. S. MUIJE</u>	<u>MS. B. L. McCAFFERTY</u>	<u>A. M. STONE</u>

  

FROM MR.	<u>J. L. EMS/pjh/112</u>	DATE	<u>SEPTEMBER 26, 1975</u>
SUBJECT	<u>SUEDES</u>		

DR. P. L. AULBACH  
J. L. KNOOP/J. F. NALL

Attached are the results of the evaluations of SUEDES and SUEDES Menthol produced 8/19 - 8/22/75 and 8/25 - 8/28/75, respectively.

The average moisture result on the menthol version is 0.9% below target.

*J. L. Ems*  
J. L. E.

SUEDES  
OUTGOING PRODUCT SPECIFICATIONS SHEET  
R&D

CHARACTERISTIC	PLANT SPECIFICATIONS					ACTUAL RESULTS		
	TARGET	(1) REJECT LIMITS		(2) TOLERANCE LIMITS		AVERAGE	(3) TOLERANCE VALUES	
		Min.	Max.	Min.	Max.		Min.	Max.
Cigarette Length (mm)	120					120		
Filter Length (mm)	30					30		
Filter Tip Length (mm)	35					35		
Circumference (mm)	21.0					20.9		
Density (mg/cc)	262					263	255	271
Tobacco Weight (mg/cig.)	826					822	800	844
Non-Tobacco Weight (mg/cig.)	230					227		
Cigarette Weight (mg/cig.)	1,056					1,049		
Filter Tip P.D. (in. H <sub>2</sub> O)	2.4					1.7	1.2	2.2
Cigarette P.D. (in. H <sub>2</sub> O)	4.8					5.5		
Moisture (%)	13.5					13.3	12.1	14.5
tar (mg/cig.)						17.5		
tar (mg/cig.)						1.36		
Effective Cigarettes (%)						----		

- 1) Reject limits are the minimum or maximum acceptable average value for each characteristic.  
 2) Tolerance limits are minimum and maximum values within which 95% of the batch should fall.  
 3) Actual tolerance values represent 2 sigma. Sigmas and corresponding averages were calculated from an analysis of 30 individual packages representing the batch.

CHARACTERISTIC	ADDITIONAL TESTS	ACTUAL RESULTS
No. of Puffs		11.3
Filter Efficiency-Wic. (%)		31.3
Tobacco Analyses		
Total Alkaloids (%)		1.76
Reducing Sugars (%)		10.8
Total Sugars (%)		15.5

REMARKS:

Signature \_\_\_\_\_

8/19 - 8/22/75  
 Production Date  
 September 26, 1975  
 Report Date

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SUEDES MENTOL  
OUTGOING PRODUCT SPECIFICATIONS SHEET  
R&D

CHARACTERISTIC	GRAND SPECIFICATIONS				ACTUAL RESULTS		
	TARGET	(1) REJECT LIMITS		(2) TOLERANCE LIMITS		AVERAGE	(3) TOLERANCE VALUES
		Min.	Max.	Min.	Max.		Min. Max.
Cigarette Length (mm)	120					120	
Filter Length (mm)	30					30	
Filter Length (mm)	35					35	
Perimeter (mm)	21.0					20.9	
Density (mgs/cc)	257					260	254 266
Back Weight (mgs/cig.)	810					816	800 832
Non-Tobacco Weight (mgs/cig.)	230					228	
Cigarette Weight (mgs/cig.)	1,040					1,044	
Filter Tip P.D. (in. H <sub>2</sub> O)	2.4					1.7	1.3 2.1
Cigarette P.D. (in. H <sub>2</sub> O)	4.8					5.7	
Moisture (%)	13.5					12.6	11.6 13.6
Nicotine (%)	0.40					0.38	0.35 0.41
Nicotine (mgs/cig.)						18.1	
Cotinine (mgs/cig.)						1.37	
Effective Cigarettes (%)						---	

1) Reject limits are the minimum or maximum acceptable average value for each characteristic.  
 2) Tolerance limits are minimum and maximum values within which 95% of the batch should fall.  
 3) Actual tolerance values represent 2 sigma. Sigmas and corresponding averages were calculated from an analysis of 30 individual packages representing the batch.

CHARACTERISTIC	ADDITIONAL TESTS	ACTUAL RESULTS
No. of Puffs		11.6
Filter Efficiency-Nic. (%)		29.4
Tobacco Analyses		
Total Alkaloids (%)		1.91
Reducing Sugars (%)		8.8
Total Sugars (%)		13.8

REMARKS: Moisture results are 0.9% below target.

Signature \_\_\_\_\_

8/25 - 8/28-75  
 Production Date  
 September 26, 1975  
 Report Date

SUEDES  
ONGOING PRODUCT SPECIFICATIONS SHEET  
R&D

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CHARACTERISTIC	SPECIFICATIONS					ACTUAL RESULTS		
	TARGET	(1) REJECT LIMITS		(2) TOLERANCE LIMITS		AVERAGE	(3) TOLERANCE VALUES	
		Min.	Max.	Min.	Max.		Min.	Max.
Cigarette Length (mm)	120							
Filter Length (mm)	30							
Tip Length (mm)	35							
Circumference (mm)	21.0					20.9		
Density (mg/cc)	262					262	256	268
Tobacco Weight (mg/cig.)	826					820	802	838
Non-Tobacco Weight (mg/cig.)	230					235		
Cigarette Weight (mg/cig.)	1,056					1,055		
Filter Tip P.D. (in. H <sub>2</sub> O)	2.4					2.0	1.7	2.3
Cigarette P.D. (in. H <sub>2</sub> O)	4.8					5.8		
Moisture (%)	13.5					13.1	12.5	13.7
tar (mg/cig.)								
Nicotine (mg/cig.)								
Effective Cigarettes (%)								

- 1) Reject limits are the minimum or maximum acceptable average value for each characteristic.
- 2) Tolerance limits are minimum and maximum values within which 95% of the batch should fall.
- 3) Actual tolerance values represent 2 sigma. Sigmas and corresponding averages were calculated from an analysis of 30 individual packages representing the batch.

CHARACTERISTIC	ADDITIONAL TESTS	ACTUAL RESULTS
No. of Puffs		_____
Filter Efficiency-NIC. (%)		_____
Tobacco Analyses		
Total Alkaloids (%)		_____
Reducing Sugars (%)		_____
Total Sugars (%)		_____

COMMENTS:

Signature

9-22-75  
Production Date

9-25-75  
Report Date

SUEDES  
OUTGOING PRODUCT SPECIFICATIONS SHEET  
RSB

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CHARACTERISTIC	PLANT SPECIFICATIONS					ACTUAL RESULTS		
	TARGET	(1) REJECT LIMITS		(2) TOLERANCE LIMITS		AVERAGE	(3) TOLERANCE VALUES	
		Min.	Max.	Min.	Max.		Min.	Max.
Cigarette Length (mm)	120							
Filter Length (mm)	30							
Filter Length (mm)	35							
Circumference (mm)	21.0					21.0		
Density (mg/cc)	262					261	254	268
Tobacco Weight (mg/cig.)	826					826	803	849
Non-Tobacco Weight (mg/cig.)	230					234		
Cigarette Weight (mg/cig.)	1,056					1,060		
Filter Tip P.D. (in.H <sub>2</sub> O)	2.4					2.1	1.6	2.6
Cigarette P.D. (in.H <sub>2</sub> O)	4.8					5.6		
Moisture (%)	13.5							
Nic. (mg/cig.)								
tar (mg/cig.)								
Effective Cigarettes (%)								

- 1) Reject limits are the minimum or maximum acceptable average value for each characteristic.  
 2) Tolerance limits are minimum and maximum values within which 95% of the batch should fall.  
 3) Actual tolerance values represent 2 sigma. Sigmas and corresponding averages were calculated from an analysis of 30 individual packages representing the batch.

CHARACTERISTIC	ADDITIONAL TESTS	ACTUAL RESULTS
No. of Puffs		_____
Filter Efficiency-Nic. (%)		_____
Tobacco Analyses		
Total Alkaloids (%)		_____
Reducing Sugars (%)		_____
Total Sugars (%)		_____

REMARKS:

Signature

9-23-75  
Production Date

9-25-75  
Report Date

SUEDES  
CIGARETTE PRODUCT SPECIFICATIONS SHEET  
R&H

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CHARACTERISTIC	TARGET	TOLERANCE LIMITS				ACTUAL RESULTS		
		(1) REJECT LIMITS		(2) TOLERANCE LIMITS		AVERAGE	(3) TOLERANCE VALUES	
		Min.	Max.	Min.	Max.		Min.	Max.
Cigarette Length (mm)	120							
Filter Length (mm)	30							
Filter Tip Length (mm)	35							
Circumference (mm)	21.0					20.9		
Density (mg/cc)	262					262	256	268
Tobacco Weight (mg/cig.)	826					821	803	839
Non-Tobacco Weight (mg/cig.)	230					234		
Cigarette Weight (mg/cig.)	1,056					1,055		
Filter Tip P.D. (in. 11,0)	2.4					1.8	1.6	2.0
Cigarette P.D. (in. 11,0)	4.8					5.3		
Moisture (%)	13.5					14.2	13.2	15.2
Nicotine (mg/cig.)								
Tar (mg/cig.)								
Effective Cigarettes (%)								

- 1) Reject limits are the minimum or maximum acceptable average value for each characteristic.  
 2) Tolerance limits are minimum and maximum values within which 95% of the batch should fall.  
 3) Actual tolerance values represent 2 sigma. Sigmas and corresponding averages were calculated from an analysis of 30 individual packages representing the batch.

CHARACTERISTIC	ADDITIONAL TESTS	ACTUAL RESULTS
No. of Puffs		_____
Filter Efficiency-Nic.(%)		_____
Tobacco Analyses		
Total Alkaloids (%)		_____
Reducing Sugars (%)		_____
Total Sugars (%)		_____

COMMENTS: Moisture results are 0.7% above target.

Signature \_\_\_\_\_

7-12-75  
Production Date  
7-17-75  
Report Date

SUEDES MENTHOL  
CHICAGO PRODUCT SPECIFICATIONS SHEET  
RM

783

CHARACTERISTIC	PRIME SPECIFICATIONS					ACTUAL RESULTS		
	TARGET	(1) REJECT LIMITS		(2) TOLERANCE LIMITS		AVERAGE	(3) TOLERANCE VALUES	
		Min.	Max.	Min.	Max.		Min.	Max.
Cigarette Length (mm)	120							
Filter Length (mm)	30							
Filter Length (mm)	35							
Circumference (mm)	21.0					21.0		
Moisture (mg/cc)	257					255	249	261
Tobacco Weight (mg/cig.)	810					806	787	825
Non-Tobacco Weight (mg/cig.)	230					238		
Cigarette Weight (mg/cig.)	1,040					1,044		
Filter Tip P.D. (in. H <sub>2</sub> O)	2.4					1.7	1.4	2.0 *
Cigarette P.D. (in. H <sub>2</sub> O)	4.8					5.8		*
Moisture (%)	13.5					13.9	12.8	15.0
Menthhol (%)	0.40							
Nicotine (mg/cig.)								
Cotinine (mg/cig.)								
Effective Cigarettes (%)								

- 1) Reject limits are the minimum or maximum acceptable average value for each characteristic.  
2) Tolerance limits are minimum and maximum values within which 95% of the batch should fall.  
3) Actual tolerance values represent 2 sigma. Sigmas and corresponding averages were calculated from an analysis of 30 individual packages representing the batch.

CHARACTERISTIC	ADDITIONAL TESTS	ACTUAL RESULTS
No. of Puffs		_____
Filter Efficiency-Nic. (%)		_____
Tobacco Analyses		
Total Alkaloids (%)		_____
Reducing Sugars (%)		_____
Total Sugars (%)		_____

REMARKS: \* This report was previously issued without pressure drop results.

Signature

9-10-75  
Production Date

9-19-75  
Report Date

WHICORNG 1965 MODEL

*Smoker  
Robert  
Jr.*

CHARACTERISTIC	TARGET	REJECT LIMITS		(2) TOLERANCE LIMITS		AVERAGE	TOLERANCE	
		Min.	Max.	Min.	Max.		Min.	Max.
Cigarette Length (mm)	120							
Filter Length (mm)	30							
Filter Length (mm)	35							
Circumference (mm)	21.0					21.2		
Density (mg/cc)	257						26.1	
Tobacco Weight (mg/cig.)	810						82.5	
Filter Tobacco Weight (mg/cig.)	230					23.2		
Cigarette Weight (mg/cig.)	1,040					104.4		
Filter Tip P.D. (in. 11,0)	2.4							
Cigarette P.D. (in. 11,0)	4.8							
Moisture (%)	13.5					13.2	13.2	15.0
Alcohol (%)	0.40							
tar (mg/cig.)								
Nicotine (mg/cig.)								
Effective Cigarettes (%)								

- Reject limits are the minimum or maximum acceptable average value for each characteristic.
- Tolerance limits are minimum and maximum values within which 95% of the batch should fall.
- Actual tolerance values represent 5% and corresponding averages were calculated from an analysis of 30 individual packages representing the batch.

CHARACTERISTIC	ADDITIONAL TESTS	ACTUAL RESULTS
No. of Puffs		_____
Filter Efficiency-Nic.(%)		_____
Tobacco Analyses		
Total Alkaloids (%)		_____
Reducing Sugars (%)		_____
Total Sugars (%)		_____

REMARKS:

Production Date

NOTICE IF THE FILM IMAGE IS LESS CLEAR  
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QUALITY OF THE DOCUMENT BEING FILMED.

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## INTERNAL CORRESPONDENCE

TO MR.	<u>C. I. McCARTY</u>		
DEPT.			
C. C. to MR.	<u>R. M. HEYWARD</u>	<u>DR. R. A. SANFORD</u>	<u>D. L. HAVERSTOCK</u>
" "	<u>DR. I. W. HUGHES</u>	<u>C. L. DOMECK</u>	<u>G. C. LONG</u>
" "	<u>L. T. HAAG</u>	<u>T. D. BAKER</u>	<u>W. L. SCHERMERHORN</u> ✓
" "	<u>C. S. NIJE</u>	<u>MS. B. L. MCCAFFERTY</u>	<u>A. M. STONE</u>
FROM MR.	<u>J. L. EMS/1a/112</u>		DATE <u>SEPTEMBER 9, 1975</u>
SUBJECT	<u>SUEDES MENTHOL</u>		

DR. P. L. AULBACH  
J. L. KNOOP/J. F. NALL

Attached are the results of the evaluations of SUEDES Menthol produced 8/1-8/8/75.

*J. L. E.*  
J. L. E.

SUEDES MENTHOL  
SMOKING PRODUCT SPECIFICATIONS SHEET  
R&B

CHARACTERISTIC	TOLERANCE LIMITS				ACTUAL RESULTS		
	TARGET	(1) REJECT LIMITS		(2) TOLERANCE LIMITS		AVERAGE	(3) TOLERANCE VALUES
		Min.	Max.	Min.	Max.		Min. Max.
Cigarette Length (mm)	120					120	
Filter Length (mm)	30					30	
Filter Length (mm)	35					35	
Circumference (mm)	21.0					21.0	
Density (mg/cc)	257					255	247 263
Tobacco Weight (mg/cig.)	810					807	785 829
Non-Tobacco Weight (mg/cig.)	230					234	
Cigarette Weight (mg/cig.)	1,040					1,041	
Filter Tip P.D. (in.H <sub>2</sub> O)	2.4					1.9	1.3 2.5
Cigarette P.D. (in.H <sub>2</sub> O)	4.8					5.8	
Moisture (%)	13.5					13.1	12.4 13.8
Alcohol (%)	0.40					0.38	0.35 0.41
Nicotine (mg/cig.)						18.7	
Cotinine (mg/cig.)						1.40	
Effective Cigarettes (%)						---	

- ) Reject limits are the minimum or maximum acceptable average value for each characteristic.  
 ) Tolerance limits are minimum and maximum values within which 95% of the batch should fall.  
 ) Actual tolerance values represent 2 sigma. Sigmas and corresponding averages were calculated from an analysis of 30 individual packages representing the batch.

CHARACTERISTIC	ADDITIONAL TESTS	ACTUAL RESULTS
No. of Puffs		11.3
Filter Efficiency-Nic.(%)		30.4
Tobacco Analyses		
Total Alkaloids (%)		1.79
Reducing Sugars (%)		10.0
Total Sugars (%)		12.5

REMARKS:

Signature \_\_\_\_\_

8/1-8/8/75  
 Production Date  
 9/9/75  
 Report Date



SUEDES MENTHOL  
SMOKING PRODUCT SPECIFICATIONS SHEET  
R&D

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CHARACTERISTIC	TARGET	TOLERANCE SPECIFICATIONS				ACTUAL RESULTS		
		(1) REJECT LIMITS		(2) TOLERANCE LIMITS		AVERAGE	(3) TOLERANCE VALUES	
		Min.	Max.	Min.	Max.		Min.	Max.
Cigarette Length (mm)	120							
Filter Length (mm)	30							
Filter Tip Length (mm)	35							
Circumference (mm)	21.0					21.0		
Density (mg/cc)	257					258	254	262
Tobacco Weight (mg/cig.)	810					814	802	826
Non-Tobacco Weight (mg/cig.)	230					234		
Cigarette Weight (mg/cig.)	1,040					1,048		
Filter Tip P.D. (in.H <sub>2</sub> O)	2.4					1.6	1.3	1.9
Cigarette P.D. (in.H <sub>2</sub> O)	4.8					5.8		
Moisture (%)	13.5							
Alcohol (%)	0.40							
tar (mg/cig.)								
Nicotine (mg/cig.)								
Effective Cigarettes (%)								

- 1) Reject limits are the minimum or maximum acceptable average value for each characteristic.  
 2) Tolerance limits are minimum and maximum values within which 95% of the batch should fall.  
 3) Actual tolerance values represent 2 sigma. Sigmas and corresponding averages were calculated from an analysis of 30 individual packages representing the batch.

CHARACTERISTIC	ADDITIONAL TESTS	ACTUAL RESULTS
No. of Puffs		_____
Filter Efficiency-Nic.(%)		_____
Tobacco Analyses		
Total Alkaloids (%)		_____
Reducing Sugars (%)		_____
Total Sugars (%)		_____

REMARKS:

Signature

9-2-75  
 Production Date  
 9-8-75  
 Report Date

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**சங்கு உலகம்**

Report Date

56-8-6

**Product ion Date**

9-3-75

**संज्ञा**

Total Sugars (%)

Reducing Sugars (%)

Total Alkaloids (%)

Top Secret and Confidential

Efficient Efficiency-Nic. (%)

No. of Puffs

DISINTEGRATION

ACTUAL RESULTS

ADDITIONAL TESTS

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(2) ~~SECRET~~ ~~SECRET~~

(1970/81) 0072001

17 (mg 3/5/18, )

(2) 104315

191 3101934

Garrett P.D. (1992)

2011年12月20日

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(b) (5) DPP, (b) (5) ACP

(၁၁/၆၆) အရပ်ရပ်.

ג. כחשן פ. כחשן

၁၆) ပုဂံမြို့နယ်၊ မြို့နယ်

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(ឃ្លា) ប្រព្រឹត្តិការណ៍ ទាញទុកចិត្ត

PARACTINIS

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BOARD SPECIAL LOCATION	
(1) SUBJECT	(2) POLYMERIZATION

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UNITED STATES DEPARTMENT OF AGRICULTURE  
BUREAU OF ENTOMOLOGY