

BROWN & WILLIAMSON TOBACCO CORPORATION

INTERNAL CORRESPONDENCE

TO: DR. P. L. AULBACH ✓
CC: MR. P. H. HARPER
FROM: MR. D. S. ROTH/bfw/911
INTERNATIONAL & EXTERNAL TECHNICAL SERVICES DEPARTMENT
DATE: APRIL 1, 1981
SUBJECT: KENT CP, KS, DL SAMPLES - TAR REDUCTION - LUXEMBOURG
Ref. MGL-3351 THRU 3355

FILE
RECEIVED
APR 3 1981
P.H.H.

R&D analytical results are complete and appended for five samples of KENT from Luxembourg. Three more samples arrived in early March 1981 but results are incomplete. These results will be reported when available.

Dr. Aulbach has reported findings and made recommendations based on these data and all eight samples in his memo of March 17, 1981.

D. S. R.
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dsr/mem1/0327

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ANALYTICAL DATA

	<u>KENT 80</u> <u>9-4-2</u>	<u>KENT 80</u> <u>9-4-3</u>
<u>PRESSURE DROP (mm)</u>		
Cigarette	109	99
Sealed Cigarette	131	132
Tobacco Section	60	59
Filter	71	73
<u>LENGTH (mm)</u>		
Cigarette	80.0	80.1
Filter	20.0	20.0
Tipping	24.2	24.4
Circumference	24.90	24.90
<u>WEIGHT (mg/cig.)</u>		
Cigarette	989	983
N.T.W.	221	220
Tobacco	768	763
Density (mg/cc)	259	257
<u>FILTER (%)</u>		
Ventilation Rate	22.2	35.4
<u>PAPER</u>		
Porosity (Coresta)	40	41
Citrate (%)	1.2	1.1
<u>TOBACCO ANALYSIS (%)</u>		
Alkaloids	1.57	1.56
Total Sugar	9.2	9.2
Reducing Sugar	7.1	6.9
Moist. (pkg.)	12.6	12.8
Prop. Glycol	1.1	1.1
Glycerin	1.4	1.4
Nitrate	0.73	0.72
<u>SMOKING (/cig.)</u>		
TAR (mg)	10.1	8.7
Nicotine (mg)	0.84	0.71
Water (mg)	1.06	1.02
Efficiency (%)	37.2	39.9
Puffs	8.0	8.3
CO (mg)	11.80	9.40
<u>OTHER</u>		
Corr. Firm. (cts./25 cig.)	172	172
Ends Stab. (mg/cig.)	5	8
Coal Ret. (%)	90	100

Date: 3-24-81

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ANALYTICAL DATA

KENT 100
4-1 NC

PRESSURE DROP (mm)

Cigarette	125
Sealed Cigarette	125
Tobacco Section	75
Filter	50

LENGTH (mm)

Cigarette	98.7
Filter	25.1
Tipping	30.2
Circumference	24.80

WEIGHT (mg/cig.)

Cigarette	1233
N.T.W.	242
Tobacco	991
Density (mg/cc)	275

FILTER (%)

Ventilation Rate	0.0
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PAPER

Porosity (Coresta)	92
Citrate (%)	1.0

TOBACCO ANALYSIS (%)

Alkaloids	1.63
Total Sugar	9.6
Reducing Sugar	7.4
Moist. (pkg.)	14.7
Prop. Glycol	1.1
Glycerin	1.2
Nitrate	0.75

SMOKING (/cig.)

TAR (mg)	13.7
Nicotine (mg)	1.02
Water (mg)	1.42
Efficiency (%)	33.9
Puffs	10.0
CO (mg)	13.50

OTHER

Corr. Firm. (cts./25 cig.)	146
Ends Stab. (mg/cig.)	5
Coal Ret. (%)	-----

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ANALYTICAL DATA

	<u>KENT KS</u> <u>4-1 NC</u>	<u>KENT KS</u> <u>4-2</u>
<u>PRESSURE DROP (mm)</u>		
Cigarette	121	104
Sealed Cigarette	121	132
Tobacco Section	61	63
Filter	60	69
<u>LENGTH (mm)</u>		
Cigarette	83.4	83.7
Filter	20.2	19.8
Tipping	24.0	24.2
Circumference	25.00	25.09
<u>WEIGHT (mg/cig.)</u>		
Cigarette	1057	1047
N.T.W.	228	224
Tobacco	829	823
Density (mg/cc)	264	250
<u>FILTER (%)</u>		
Ventilation Rate	0.0	28.0
<u>PAPER</u>		
Porosity (Coresta)	83	45
Citrate (%)	1.0	1.1
<u>TOBACCO ANALYSIS (%)</u>		
Alkaloids	1.61	1.68
Total Sugar	9.6	9.2
Reducing Sugar	7.1	6.9
Moist. (pkg.)	14.3	14.4
Prop. Glycol	1.2	1.0
Glycerin	1.5	1.1
Nitrate	0.71	0.74
<u>SMOKING (/cig.)</u>		
TAR (mg)	12.7	10.0
Nicotine (mg)	0.93	0.88
Water (mg)	1.47	0.80
Efficiency (%)	35.5	37.6
Puffs	8.1	8.7
CO (mg)	12.10	11.00
<u>OTHER</u>		
Corr. Firm. (cts./25 cig.)	168	172
Ends Stab. (mg/cig.)	7	8
Coal Ret. (%)	100	98

Date: 3-24-81

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