

### 3R4F Preliminary Analysis

#### Cigarette Design Criteria

Cigarette Length	84 mm
Tobacco Rod Circumference	24.8 mm
Tobacco rod Length	57 mm
Filter Length	27 mm
Total Resistance to Draw (RTD)	128 mm H <sub>2</sub> O
"Tar"	9.5 mg/cigt

Cigarette Rod		Cigarette Filter	
Filter	3R4F Blend	Tow	Cellulose Acetate 2.9/41,000
Cuts per Inch	30	Plasticizer	9% Triacetin
Paper Permeability	24 CORESTA units	4-up Resistance to Draw	115 mm H <sub>2</sub> O
Paper Citrate	0.60 %	Circumference	24.45 mm
Tobacco Weight (13% OV)	0.783 mg	Length	27 mm
Length	57 mm		

#### Target Total Cigarette

Tipping Paper Length	32 mm, white
Dilution	30 +/- 5%
Circumference	24.8 mm
Length	84 mm
Resistance to Draw	128 mm H <sub>2</sub> O
Weight	1.06 g
Pack Moisture	13% Oven Volatiles

#### Final Total Cigarette Measurements (n = 11)

Dilution	29 (4.2) %
Circumference	24.9 (0.07) mm
Total Resistance to Draw	133.5 (4.45) mm H <sub>2</sub> O
Cigarette Weight	1.05 (0.002) g
Tobacco Weight	0.775 (0.001) g
Pack Moisture	12.9 (0.33)% Oven Volatiles
Firmness	2.43 (0.113) mm

**Preliminary FTC Smoking Results Average**

Butt Length	35 mm
Puff Count	9.0 (0.112)
Total Particulate Matter, TPM	10.9 (0.168) mg/cigt
"Tar"	9.4 (0.142) mg/cigt
Nicotine	0.726 (0.009) mg/cigt
Carbon Monoxide	11.9 (0.208) mg/cigt

**Final FTC Smoking Results Average (n=12)**

Puff Count	9.0 (0.15)
Total Particulate Matter, TPM	11.0 (0.33) mg/cigt
"Tar"	9.4 (0.30) mg/cigt
Nicotine	0.73 (0.013) mg/cigt
Carbon Monoxide	12.0 (0.48) mg/cigt

**Preliminary Filler Analysis**

Total Alkaloids	1.98 % (.04) at 13% Oven Volatiles
Reducing Sugars	8.4 % (0.4) at 13% Oven Volatiles
Glycerin	2.7 % (0.1) at 13% Oven Volatiles

**Final Filler Analysis (n=23)**

Total Alkaloids (as-is)	2.05 % (0.04) at 11.6% Oven Volatiles
Reducing Sugars (as-is)	8.7% (0.3) at 11.6% Oven Volatiles
Glycerin (as-is)	2.36 % (0.05) at 11.6% Oven Volatiles

<b>Blend Summary</b>	<b>2R4F</b>	<b>3RF4</b>
Flue Cured	32.51 %	35.41%
Burley	19.94 %	21.62%
Maryland	1.24 %	1.35%
Oriental	11.08 %	12.07%
Reconstituted (Schweitzer Process)	27.13 %	29.55%
Glycerin (dry-weight basis @ 11.6% OV)	2.80 %	2.67%
Isosweet (Sugar)	5.30 %	6.41%