

1) As far as I can tell from the data in Table 2 the filters have about 10% transmission that is quite high for needless.

2) I am unable to find any data that will enable us to see what the filtration efficiency of the filter is. The data in Table 2 shows the effect of introducing ventilation but in this is hidden any change in the efficiency of the filter due to ventilation. Some S₁ data would be interesting.

3) If this is a ventilated isocell it would have been interesting to see the efficiency of CO₂ & NO.

4) On the whole this is a very good technical report.

Hf 4

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The method of filter ventilation used in Galaxy is the same as that used for Meint in the USA, producing a similar 12% reduction in pressure drop. It is believed that the Marlboro blend was used for Meint in the USA. In this case, the filter and cigarette paper are very similar in both Galaxy and Marlboro (Brazil) but the report suggests that the Shelton blend has been used for Galaxy. It is difficult to see how the Shelton blend which produces 29.4 mg of TPM in Shelton VSF, could produce only 13.5 mg TPM in Galaxy with a ventilation system that reduces the TPM by about 18% (even allowing for differences in filter length and tobacco butt length). The Marlboro blend, however, produces only 21.7 mg of TPM and 0.73 mg of nicotine in Marlboro VSF. Allowing for the difference in tobacco butt length (due to the 10mm overlap on Galaxy), the Marlboro blend could produce the 16.5 mg TPM and 0.20 mg of nicotine measured for Galaxy in the holes closed experiment.

The difference between the values for the blend measurements (table 4) for Galaxy, Shelton (soft wrap) and Marlboro are quite small and in fact, the values of reducing sugar, potassium and nitrate nitrogen for Marlboro are closer to Galaxy than the values for Shelton.

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