

Supplementary Files

Supplemental Table 1: Tar and Ventilation Levels of Chinese Cigarette Brands in 2009 and 2012					
UPC	Brand Name	2009		2012	
		Tar (mg)	Ventilated	Tar (mg)	Ventilated
6901028000642	Shuangxi	13	Yes	12	Yes
6901028000987	Shuangxi	13	Yes	12	Yes
6901028001465	Shuangxi	13	Yes	12	Yes
6901028001618	Shuang Xi	11	Yes	10	Yes
6901028002097	Cocopalm	13	Yes	12	Yes
6901028002752	Cocopalm	13	Yes	12	Yes
6901028011075	Jiatianxia	13	Yes	13	Yes
6901028015417	Zhenlong	13	Yes	12	Yes
6901028024969	The X Catena Pride	8	Yes	8	No
6901028024990	Pride	13	Yes	12	Yes
6901028025812	Pride	6	Yes	8	Yes
6901028028356	Tianxiaxiu	14	Yes	14	Yes
6901028036672	Huang Guoshu	13	Yes	13	Yes
6901028036795	Huang Guo Shu	13	Yes	12	Yes
6901028037891	Huangguoshu	12	Yes	12	Yes
6901028045483	Camellia	13	Yes	12	No
6901028048231	Hongtashan	12	Yes	12	Yes
6901028055055	Honghe	12	Yes	13	Yes
6901028055086	Honghe	12	Yes	12	Yes
6901028055208	Honghe	12	Yes	12	Yes
6901028065078	Lan zhou	13	Yes	8	Yes
6901028065399	Lan zhou	13	Yes	8	Yes
6901028065580	Lan zhou	11	Yes	8	Yes
6901028071468	Zhongnanhai	5	Yes	5	Yes
6901028071499	Zhongnanhai	8	Yes	8	Yes
6901028071529	Zhongnanhai	5	No	5	No
6901028071765	Zhongnanhai	8	Yes	8	Yes
6901028072458	Beijing	12	Yes	12	Yes
6901028072601	Zhongnanhai	13	Yes	12	Yes
6901028075763	Chunghwa	13	Yes	12	Yes
6901028075770	Chunghwa	13	Yes	12	Yes
6901028075831	Double Happiness	8	Yes	8	Yes
6901028075992	Double Happiness	12	Yes	12	Yes
6901028076333	Memphis Blue	9	Yes	9	Yes
6901028090902	Renmin Dahuitang Ben Xiang	10	No	10	Yes
6901028092944	Renmin Dahuitang	13	Yes	12	Yes

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6901028093187	Renmin Dahuitang	14	Yes	13	Yes
6901028095884	Huang Guo Shu	13	Yes	12	Yes
6901028099776	Chang Baishan	5	Yes	5	Yes
6901028112772	Nanjing	12	Yes	12	Yes
6901028114448	Suyan	15	Yes	12	Yes
6901028115292	Yi Pin Mei	12	Yes	11	Yes
6901028118170	Liqun	13	No	12	Yes
6901028124027	Huang Shan	12	Yes	12	Yes
6901028132268	Derby	12	Yes	12	Yes
6901028133470	Jinsheng	14	Yes	11	Yes
6901028137287	Septwolves	13	Yes	12	Yes
6901028137683	Septwolves	13	No	12	Yes
6901028138154	Marlboro	12	Yes	12	Yes
6901028138291	Marlboro	8	Yes	8	Yes
6901028138352	Septwolves	13	Yes	12	Yes
6901028150255	Taishan	12	Yes	12	Yes
6901028150361	Taishan	8	Yes	8	Yes
6901028162104	Dihao	13	Yes	13	No
6901028179423	Hongjinlong	14	No	14	No
6901028179652	Huanghelou	12	Yes	12	Yes
6901028180177	Hongjinlong	15	Yes	10	Yes
6901028180399	Hongjinlong	13	Yes	11	Yes
6901028180498	Hongjinlong	12	Yes	10	Yes
6901028184120	Huanghelou	12	Yes	8	Yes
6901028185394	Huanghelou	10	Yes	8	Yes
6901028185424	Huanghelou	12	Yes	8	Yes
6901028191029	Baisha	13	Yes	12	Yes
6901028191043	Baisha	13	No	12	Yes
6901028193498	Furongwang	15	Yes	12	Yes
6901028193818	Mellow Furong	12	Yes	12	Yes
6901028193856	Furongwang	12	Yes	12	No
6901028193917	Furongwang	10	No	8	No
6901028194594	Furongwang Starry Cerulean Sky	11	No	11	No
6901028195638	Marlboro	12	Yes	12	Yes
6901028195669	Marlboro	8	Yes	8	Yes
6901028196222	Baisha	13	Yes	12	Yes
6901028196499	Baisha	13	Yes	11	Yes
6901028196956	Harmonization	12	No	12	No

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UPC	Brand Name	2009		2012	
6901028199414	Furong	12	Yes	11	Yes
6901028207874	Xiongshi	11	Yes	11	Yes
6901028208802	Huang Shan	13	Yes	12	Yes
6901028225601	Huang Shan Sinicism	12	Yes	12	Yes
6901028301718	Dafengshou	13	Yes	11	Yes
6901028309226	Nation	15	No	15	No
6901028310611	Yun Yan	12	Yes	12	Yes
6901028314169	Hongtashan	12	Yes	12	Yes
6901028314626	Hong Mei	13	Yes	12	Yes
6901028315005	Hongtashan	13	Yes	12	Yes
6901028315524	Yuxi	10	Yes	10	Yes
6901028315555	Hongtashan	10	Yes	10	No
6901028316989	Yuxi	12	Yes	12	Yes
6901028317122	Yuxi	12	No	12	Yes
6901028345750	Dahongying	15	Yes	15	Yes
6901028936132	Haomao	12	No	12	No

Supplemental Figure 1. Filter Design Innovations, China, 2012

Supplemental Figure 1A) Two part filters

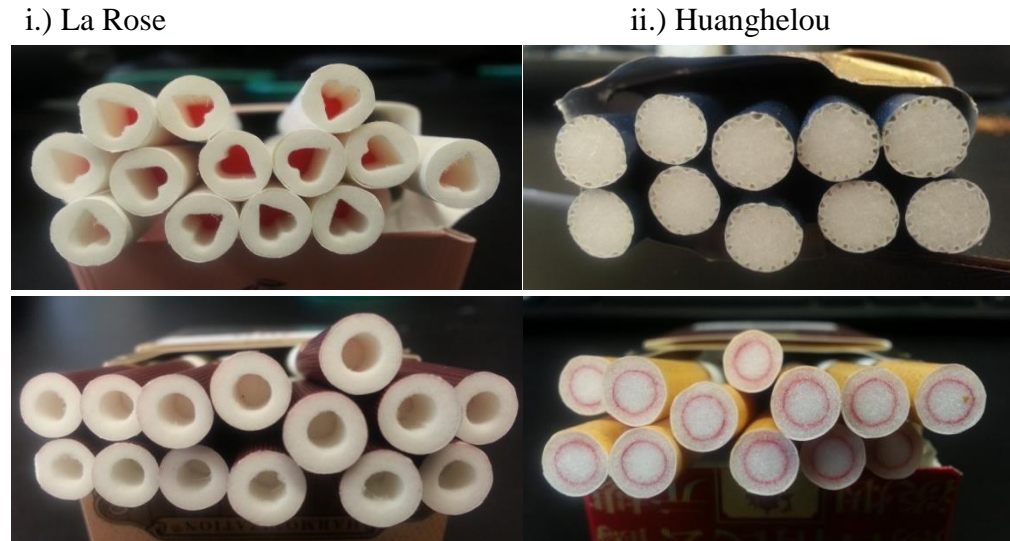


i. Green dalmatian filter found in Yuxi brand.

ii. Rainbow dalmatian filter found Eight 8mg brand.

iii. Plain two part filters in some Huanghelou cigarettes.

Supplemental Figure 1B) Filter end designs



i.) La Rose

ii.) Huanghelou

iii.) Furongwang

iv.) Harmonization

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Supplemental Table 2: Pearson Correlations Among Chinese Cigarette Design Characteristics

	Tar	Nicotine	CO	Cigarette Length	Tipping Length	Tobacco Rod Length	Filter Length	Tobacco Moisture (%)	Paper Vacuum Porosity	Paper Pressure Porosity	Cigarette Pressure Drop	Ventilation	Per Cigarette Weight	Rod Density
Tar	1	.860**	.852**	-.234**	-.332**	.202**	-.455**	-.224**	-.094	-.119	.254**	-.664**	.366**	.162*
Nicotine	.860**	1	.716**	-.234**	-.178*	.045	-.249**	-.365**	.004	-.009	.111	-.610**	.284**	.221**
CO	.852**	.716**	1	-.173*	-.364**	.284**	-.522**	-.184*	-.167*	-.189*	.328**	-.744**	.290**	.065
Cigarette Length	-.234**	-.234**	-.173*	1	.210**	.417**	.207**	.090	.210**	.211**	.062	-.078	-.198**	-.174*
Tipping Length	-.332**	-.178*	-.364**	.210**	1	-.592**	.788**	-.196**	.160*	.173*	-.277**	.133	-.276**	.184**
Tobacco Rod Length	.202**	.045	.284**	.417**	-.592**	1	-.780**	.169*	-.093	-.104	.112	-.198**	.225**	-.274**
Filter Length	-.455**	-.249**	-.522**	.207**	.788**	-.780**	1	-.153*	.244**	.263**	-.115	.253**	-.374**	.199**
Tobacco Moisture (%)	-.224**	-.365**	-.184*	.090	-.196**	.169*	-.153*	1	.032	.025	-.054	.157*	-.027	-.111
Paper Vacuum Porosity	-.094	.004	-.167*	.210**	.160*	-.093	.244**	.032	1	.990**	.047	.043	-.188*	-.045
Paper Pressure Porosity	-.119	-.009	-.189*	.211**	.173*	-.104	.263**	.025	.990**	1	.038	.041	-.214**	-.054
Cigarette Pressure Drop	.254**	.111	.328**	.062	-.277**	.112	-.115	-.054	.047	.038	1	-.372**	.133	-.010
Ventilation	-.664**	-.610**	-.744**	-.078	.133	-.198**	.253**	.157*	.043	.041	-.372**	1	-.068	.044
Per Cigarette Weight	.366**	.284**	.290**	-.198**	-.276**	.225**	-.374**	-.027	-.188*	-.214**	.133	-.068	1	.666**
Rod Density	.162*	.221**	.065	-.174*	.184**	-.274**	.199**	-.111	-.045	-.054	-.010	.044	.666**	1
Overwrap	.229**	.148*	.256**	-.096	.099	.394**	-.534**	-.042	-.219**	-.228**	-.189*	-.133	.261**	-.025

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).