

## PM USA Cigarette Non-Tobacco Ingredients

CATEGORY	INGREDIENT	QUANTITY NOT EXCEEDED [% in cigarette]
<p><b>CIGARETTE PAPERS</b></p> <p>Cigarette paper is the wrapping material surrounding the tobacco rod to form a cigarette rod. The cigarette paper is made of cellulose and may contain additives to provide whiteness, improve ash appearance and to help ensure burn uniformity.</p>	CELLULOSE	9.3
	CALCIUM CARBONATE	4.6
	MONOPOTASSIUM PHOSPHATE	1.4
	POTASSIUM CITRATE	0.3
	SODIUM CITRATE	0.3
	GUAR GUM, DEPOLYMERIZED	0.1
	HERCON 70	0.1
	CARBOXYMETHYLCELLULOSE	0.05
	GUAR GUM	0.05
<p><b>SIDSEAM ADHESIVES</b></p> <p>Sideseam adhesive is used to secure the cigarette paper around the tobacco rod. Sideseam adhesives are used in small amounts.</p>	ETHYLENE/VINYL ACETATE, COPOLYMER EMULSION IN WATER	0.3
	POLYVINYL ACETATE	0.3
	VINYL ALCOHOL-VINYL ACETATE COPOLYMER	0.3
	PROCESSING AIDS (DEFOAMER, PRESERVATIVE, WATER)	
<p><b>MONOGRAM INKS</b></p> <p>Cigarette papers often have a small brand identifying mark (monogram) printed either on the cigarette paper towards the filter end of the cigarette or on the tipping paper. The monogram is printed on the paper using a minute amount of ink. The monogram inks used on our cigarettes may contain, for example, black, blue, red and/or yellow pigments.</p>	IRON OXIDE BLACK	0.005
	LINSEED OILS	0.005
	LINSEED VARNISH	0.005
	LECITHIN	0.0005
	ORGANOPHILIC CLAY	0.0005
	PIGMENT BLUE 15	0.0005
	PIGMENT YELLOW 14	0.0005

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<b>MONOGRAM INKS (continued)</b>	PIGMENT YELLOW 42	0.0005
	PIGMENT RED 170:1	0.0005
	RESIN	0.0005
	ROSINS	0.0005
	SOYBEAN OILS	0.0005
	SYNTHETIC TREATED SILICA	0.0005
	WHITE MINERAL OIL	0.0005
	CALCIUM 2-ETHYLHEXANOATE	0.0001
	C.I. PIGMENT RED 53, BARIUM SALT	0.0001
	C.I. PIGMENT RED 57, CALCIUM SALT	0.0001
	OXY ALUMINUM OCTOATE	0.0001
	PETROLEUM DISTILLATES, HYDROTREATED MIDDLE	0.0001
	PHENOL, 2,6-BIS (1,1 - DIMETHYLETHYL) - 4 - (1 - METHYLPROPYL) -	0.0001
	PIGMENT GREEN 7	0.0001
	PIGMENT VIOLET 19	0.0001
	SILICA	0.0001
	TITANIUM DIOXIDE	0.0001
	2,2,4- TRIMETHYL- 1,3- PENTANEDIOL MONOISOBUTYRATE	0.0001
TRIPROPYLENE GLYCOL	0.0001	

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<b>MONOGRAM INKS (continued)</b>	MONOMETHYL ETHER	
	PROCESSING AIDS (ANTIOXIDANT, SOLVENT)	
<p><b>FILTRATION MATERIALS</b></p> <p>Cigarette filters are attached to the end of the cigarette rod. Filters are made in a variety of designs. In addition to papers and adhesives (both of which are discussed separately), most cigarette filters contain filtration materials known as a filter tow and a plasticizer. The filter tow is the bundle of cellulose acetate fibers or papers that comprise the bulk of a cigarette filter. A plasticizer is a softening agent that is added to the filter tow in small quantities to bind the filter fibers together. Some of our brands also contain carbon designed to assist in the filtration process.</p>	CELLULOSE ACETATE	36.4
	CARBON	20.3
	TRIACETIN	3.7
	POLYETHYLENE GLYCOL 200	3
	TITANIUM DIOXIDE	0.3
	COTTON	0.2
	ALUMINUM OXIDE	0.005
	SODIUM CHLORIDE	0.005
	PROCESSING AIDS (FINISHING OIL)	
<p><b>FILTER PAPERS (including PLUG WRAPS, TIPPING PAPERS and TIPPING PAPER INKS)</b></p> <p>A cigarette filter contains two papers. First, a plug wrap is used to contain the filtration materials (i.e., filter tow and plasticizer). Second, a tipping paper holds the filter to the cigarette rod. The tipping paper is wrapped around the filter assembly (i.e., filtration materials and plug wrap) and extends over the cigarette rod. Tipping paper is made from cellulose fiber and may have applied to it various colorants (e.g., pigments to give a cork appearance and/or to add a monogram) and coatings (e.g., to prevent the cigarette from sticking to the lips).</p>	CELLULOSE	3.3
	CALCIUM CARBONATE	1.3
	POLYVINYL ACETATE	0.8
	NITROCELLULOSE	0.5
	TITANIUM DIOXIDE	0.5
	IRON OXIDE BLACK	0.2
	PIGMENT YELLOW 42	0.2
	POLYVINYL ALCOHOL	0.2
	STARCHES AND/OR MODIFIED STARCHES	0.2
TRIACETIN	0.2	

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<b>FILTER PAPERS (continued)</b>	ALUMINUM	0.1
	CLAY	0.1
	PIGMENT BLUE 15	0.1
	TALC	0.1
	ALUMINUM SULFATE	0.05
	BORIC ACID	0.05
	COPPER	0.05
	DIBUTYL PHTHALATE	0.05
	GLYOXAL	0.05
	HYDROGENATED METHYL ESTERS OF RESIN AND ROSIN ACIDS	0.05
	PIGMENT RED 101	0.05
	POTASSIUM HYDROXIDE	0.05
	RESINS	0.05
	ROSIN	0.05
	VINYL ALCOHOL-VINYL ACETATE COPOLYMER	0.05
	ZINC	0.05
	ACETATE PROPANOATE CELLULOSE	0.01
	CASEIN	0.01
DIMETHYL SILOXANE	0.01	
FUMARIC ACID	0.01	

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<b>FILTER PAPERS (continued)</b>	FUMERATED ROSIN	0.01
	MALEIC ANHYDRIDE	0.01
	PIGMENT YELLOW 17	0.01
	POLYETHYLENE	0.01
	SORBITAN,TRIOCTADECANOATE POLY(OXY-1,2-ETHANEDIYL) DERIVATIVES	0.01
	C.I. ACID YELLOW 3, DISODIUM SALT	0.005
	C.I. ACID YELLOW 23, TRISODIUM SALT	0.005
	C.I. PIGMENT RED 57, CALCIUM SALT	0.005
	DI-2-ETHYLHEXYLSULFOSUCCINATE	0.005
	ETHYL ACRYLATE, COPOLYMER WITH METHYL METHACRYLATE	0.005
	PARAFFIN	0.005
	PIGMENT GREEN 36	0.005
	PIGMENT ORANGE 5	0.005
	PIGMENT RED 48:2	0.005
	PIGMENT VIOLET 23	0.005
	PIGMENT YELLOW 83	0.005
	POLYSTYRENE	0.005
	ZINC SULFIDE	0.005
ALUMINUM HYDROXIDE	0.001	

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<b>FILTER PAPERS (continued)</b>	BENZENEDICARBOXYLIC ACID, DIHEPTYL ESTER, BRANCHED AND LINEAR	0.001
	BENZENEDICARBOXYLIC ACID, DINONYL ESTER, BRANCHED AND LINEAR	0.001
	BENZENEDICARBOXYLIC ACID, HEPTYL NONYL ESTER, BRANCHED AND LINEAR	0.001
	OCTADECANOIC ACID	0.001
	PIGMENT RED 22	0.001
	SILICA AMORPHOUS GEL	0.001
	SODIUM BICARBONATE	0.001
	LECITHIN	0.0005
	TRIETHANOLAMINE	0.0005
	C. I. ACID BLACK 2	0.0001
	C.I. DIRECT RED 81, SODIUM SALT	0.0001
	C.I. DIRECT RED 81, TEA-97 SALT	0.0001
	C.I. DIRECT YELLOW 11, LITHIUM SALT	0.0001
	CITRIC ACID MONOHYDRATE	0.0001
	MINERAL OIL	0.0001
PIGMENT RED 49:2	0.0001	
<b>FILTER ADHESIVES</b>  Filter adhesives are used both to	ETHYLENE/VINYL ACETATE, COPOLYMER EMULSION IN WATER	1.3

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secure the plug wrap to the filter and to secure the filter to the tobacco rod. Like sideseam adhesives, filter adhesives are used in very small amounts.	DIETHYLENE GLYCOL, DIBENZOATE	0.3
	DIPROPYLENE GLYCOL DIBENZOATE	0.3
	HYDROCARBON RESIN-ETHENYL BENZENE, COPOLYMER WITH (1-METHYLETHENYL) BENZENE	0.3
	MICROCRYSTALLINE HYDROCARBON WAX	0.2
	MICROCRYSTALLINE WAX	0.2
	ALPHA METHYL STYRENE POLYMER	0.1
	METHYL PARABEN	0.1
	POLYVINYL ALCOHOL	0.1
	2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER, POLYMER WITH ETHANOL AND ETHENYL ACETATE	0.05
	BORIC ACID	0.05
	NAPHTHA, PETROLEUM	0.05
	POLYVINYL ACETATE	0.05
	POLYVINYL ALCOHOL BORIC ACID COMPLEX	0.05
	TRIACETIN	0.05
	VINYL ALCOHOL-VINYL ACETATE COPOLYMER	0.05
PARAFFIN	0.01	

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<b>FILTER ADHESIVES (continued)</b>	ALUMINUM DISTERATE	0.0005
	ALUMINUM TRISTERATE	0.0005
	OCTADECANOIC ACID	0.0001
	PROCESSING AIDS (ANTIOXIDANT, DEFOAMER, PRESERVATIVE, WATER)	