

CATEGORY	INGREDIENT	QUANTITY NOT EXCEEDED [% in cigarette]
CIGARETTE PAPERS	CELLULOSE PULP	6.5
Cigarette paper is the wrapping	CELLULOSE	4.9
material surrounding the tobacco rod to form a cigarette rod. The	CALCIUM CARBONATE	2.9
cigarette paper is made of cellulose and may contain additives to	OXIDIZED STARCH	0.3
provide whiteness, improve ash appearance and to help ensure	PROPYLENE GLYCOL	0.1
burn uniformity.	SODIUM CITRATE	0.1
	CATIONIC STARCH	0.1
	GUAR GUM	0.1
	POTASSIUM CITRATE	0.1
	TRISODIUM CITRATE DIHYDRATE	0.1
	TRIPOTASSIUM CITRATE	0.05
SIDESEAM ADHESIVES Sideseam adhesive is used to secure the cigarette paper around the tobacco rod. Sideseam adhesives are used in small	ETHYLENE/VINYL ACETATE, COPOLYMER EMULSION IN WATER	0.2
	VINYL ALCOHOL-VINYL ACETATE COPOLYMER	0.1
amounts.	TRIACETIN	0.01
	BORIC ACID	0.0001
	PROCESSING AIDS (DEFOAMER, PRESERVATIVE, WATER)	
MONOGRAM INKS	LINSEED VARNISH	0.001
Cigarette papers often have a small	IRON OXIDE BLACK	0.001
brand identifying mark (monogram) printed either on the cigarette paper towards the filter end of the cigarette or on the tipping paper.	LINSEED OIL, POLYMER WITH ISOPHTHALIC ACID AND TRIMETHYLOLPROPANE	0.001



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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.	FERRATE(4-),HEXACYANO-, AMMONIUM IRON(3+)	0.0005
	LINSEED OIL, POLYMER with ISOPHTHALIC ACID, SOYBEAN OIL AND TRIMETHYLOLPROPANE	0.0005
MONOGRAM INKS (continued)	SOYBEAN OIL	0.0005
	MALEIC RESIN	0.0005
	LINSEED OIL	0.0005
	C.I. PIGMENT RED 57, CALCIUM SALT	0.0005
	WHITE MINERAL OIL	0.0005
	PIGMENT BLUE 15	0.0005
	PIGMENT YELLOW 14	0.0001
	ORGANOPHILIC CLAY	0.0001
	ROSIN,MALEATED,POLYMER with FORMALDEHYDE,NONYLPHENOL AND PENTAERYTHRITOL/ TERGRAF 902	0.0001
	AMORPHOUS SILICA	0.0001
	LECITHIN	0.0001
	PIGMENT YELLOW 42	0.0001
	SOYBEAN OIL, POLYMER with ISOPHTHALIC ACID AND PENTAERYTHRITOL	0.0001
	QUATERANARY AMMONIUM COMPOUNDS,BIS(HYDROGENATED TALLOW ALKYL)DIMETHYL,SALTS with BENTONITE	0.0001



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	ROSIN ESTER	0.0001
MONOGRAM INKS (continued)	ALUMINUM,[ETHYL3-(OXO- KAPPAO)BUTANOATO- KAPPAO]BIS(2-PROPANOLATO)-,(T- 4)-	0.0001
	TOCOPHEROL FRACTION OF VEGETABLE OILS	0.0001
	VEGETABLE OILS	0.0001
	2,6-DI-TERT-BUTYL-P-CRESOL	0.0001
	2,2,4- TRIMETHYL-1,3- PENTANEDIOL MONOISOBUTYLATE	0.0001
	CALCIUM 2-ETHYLHEXANOATE	0.0001
	OXY ALUMINUM OCTOATE	0.0001
	TRIPROPYLENE GLYCOL MONOMETHYL ETHER	0.0001
	PHENOL,2,6-BIS(1,1- DIMETHYLETHYL)-4-(1- METHYLPROPYL)-	0.0001
	PROCESSING AIDS (ANTIOXIDANT, SOLVENT)	
FILTRATION MATERIALS	CELLULOSE ACETATE	18.5
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	CARBON	5.2
	FLAVOR CAPSULE	2.4
	TRIACETIN	1.7
	WHITE MINERAL OIL	0.3
	TITANIUM DIOXIDE	0.1



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acetate fibers or papers that comprise the bulk of a cigarette	ACETONE	0.1
filter. A plasticizer is a softening agent that is added to the filter tow in small quantities to bind the filter	POLYOXYETHYLENE (20) SORBITAN MONOLAURATE	0.1
fibers together. Some of our brands	SORBITAN MONOLAURATE	0.1
also contain carbon designed to assist in the filtration process.	PROCESSING AIDS (FINISHING OIL)	
FILTER PAPERS (including PLUG WRAPS, TIPPING PAPERS	CELLULOSE	9.2
and TIPPING PAPER INKS)	CELLULOSE PULP	2.8
A cigarette filter contains two	CALCIUM CARBONATE	1.0
papers. First, a plug wrap is used to contain the filtration materials (i.e.,	TITANIUM DIOXIDE	0.9
filter tow and plasticizer). Second, a tipping paper holds the filter to the cigarette rod. The tipping paper is	STARCHES AND /OR MODIFIED STARCHES	0.4
wrapped around the filter assembly (i.e., filtration materials and plug	POLYVINYL ACETATE	0.4
wrap) and extends over the cigarette rod. Tipping paper is	VISCOSE	0.2
made from cellulose fiber and may have applied to it various colorants	IRON HYDROXIDE OXIDE	0.2
(e.g., pigments to give a cork appearance and/or to add a	ETHYLCELLULOSE	0.2
monogram) and coatings (e.g., to prevent the cigarette from sticking to the lips.	SILICIC ACID, ALUMINUM MAGNESIUM SODIUM SALT	0.2
	SODIUM SULFATE	0.2
	ALPHA AMYLASE	0.1
	PIGMENT YELLOW 42	0.1
	POLYVINYL ALCOHOL	0.1
	2-PROPENOIC ACID,2-METHYL-,METHYLESTER,POLYMER with ETHENOL AND ETHENYL ACETATE	0.1



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	VINYL ALCOHOL-VINYL ACETATE COPOLYMER	0.1
FILTER PAPERS (continued)	ISOPROPYL ACETATE	0.1
	CHLORITE-GROUP MINERALS	0.1
	TALC	0.1
	ETHYL ACETATE	0.1
	IRON OXIDE	0.1
	CLAY	0.05
	ADIPICACID/EPOXYPROPYL DIETHYLENETRIAMINE COPOLYMER	0.05
	C.f. PIGMENT BLACK 11	0.05
	ACETY TRIBUTYL CITRATE	0.05
	PIGMENT WHITE 18	0.05
	ETHYL ALCOHOL	0.05
	TRIACETIN	0.05
	BORIC ACID	0.05
	ANATASE (TiO2)	0.05
	SODIUM CARBOXYMETHYL CELLULOSE	0.05
	2-OXETANONE,3-(C12-16)-ALKYL-4-(C13-17)-ALKYLIDENE DERIVS.	0.05
	SODIUM ALGINATE	0.05
	NITROCELLULOSE	0.05
	ALUMINUM SULFATE	0.05



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	GUAR GUM, DIHYDROGEN PHOSPHATE	0.01
FILTER PAPERS (continued)	CASTOR OIL	0.01
(00000000000000000000000000000000000000	ISOPROPYL ALCOHOL	0.01
	PIGMENT RED 101	0.01
	COPPER	0.01
	FUMERATED ROSIN	0.01
	2-OXETANONE,3-(C14-16 and C16 UNSAT. BRANCHED & LINEAR ALKYL)-4-(C15-17 and C17 UNSAT.BRANCHED & LINEAR ALKYLIDENE) DERIVS.	0.01
	ALUMINUM	0.01
	ACETATE PROPANOATE CELLULOSE	0.01
	GLYOXAL	0.01
	GUAR GUM	0.01
	PROPYL ACETATE	0.01
	HYDROGENATED METHYL ESTERS OF RESIN & ROSIN ACIDS	0.01
	MALEIC RESIN	0.01
	C.I. FOOD YELLOW 3, DISODIUM SALT	0.01
	ETHYL ACRYLATE, COPOLYMER WITH METHYL METHACRYLATE	0.005
	RESIN ACIDS & ROSIN ACIDS, FUMARATED, CMPDS with TRIETHANOLAMINE	0.005



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	SODIUM LIGNIN SULFONATE	0.005
FILTER PAPERS (continued)	4-HEPTADECYLIDENE-3- HEXADECYL-2-OXETANONE	0.005
	AMORPHOUS SILICA	0.005
	N,N,N-TRIMETHYL-2-[(1-OXO-2- PROPENYL)OXY]- ,CHLORIDE,POLYMER w/2- PROPENAMIDE	0.005
	PIGMENT GREEN 7	0.005
	ZINC SULFIDE	0.005
	PIGMENT YELLOW 13	0.005
	ZINC	0.005
	C.I.YELLOW 23, TRISODIUM SALT	0.005
	PARAFFIN	0.005
	PIGMENT GREEN 36	0.005
	SODIUM ACETATE	0.005
	PIGMENT YELLOW 83	0.005
	CATIONIC GUAR GUM	0.005
	PHOSPHORIC ACID, TRIS(2- METHYLPROPYL)ESTER	0.005
	POLYETHYLENE GLYCOL DIOLEATE	0.005
	WHITE MINERAL OIL	0.005
	SILICA AMORPHOUS GEL	0.001
	PIGMENT YELLOW 17	0.001



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	C.I. DIRECT RED 57, CALCIUM SALT	0.001
FILTER PAPERS (continued)	METHYL ALCOHOL	0.001
	DI-2- ETHYLHEXYLFULFOSUCCINATE	0.001
	POLYETHYLENE	0.001
	ALUMINUM CHLORIDE HYDROXIDE	0.0005
	CARBON	0.0005
	PIGMENT VIOLET 23	0.0005
	SODIUM BICARBONATE	0.0005
	KATHON	0.0001
	FATTY ACIDS	0.0001
	OCTADECONOIC ACID	0.0001
	AMYLASE	0.0001
	CRYSTALLINE SILICA	0.0001
	ROSIN, CALCIUM SALT	0.0001
	PIGMENT RED 49:2	0.0001
	PEROXYACETIC ACID	0.0001
	BUTYL ACETATE	0.0001
	ISOBUTYL ACETATE	0.0001
	ISOPROPYL FORMATE	0.0001
	2-METHYL-3(2)-ISOTHIAZOLONE	0.0001
	5-CHLORO-2METHYL-3(2)- ISOTHIAZOLONE	0.0001



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FILTER ADHESIVES	POLYVINYL ACETATE	0.9
Filter adhesives are used both to secure the plug wrap to the filter and to secure the filter to the	ETHYLENE VINYL ACETATE COPOLYMER	0.5
tobacco rod. Like sideseam adhesives, filter adhesives are	PARAFFIN	0.4
used in very small amounts.	MICROCRYSTALLINE WAX	0.3
	HYDROCARBON RESIN- ETHENYLBENZENE,COPOLYMER with (1-METHYLETHENYL)BENZENE	0.3
	VINYL ALCOHOL-VINYL ACETATE COPOLYMER	0.2
	DIETHYLENE GLYCOL, DIBENZOATE	0.1
	DIPROPYLENE GLYCOL DIBENZOATE	0.1
	BORIC ACID	0.01
	DISTILLATES, PETROLEUM, C20-50, HYDROTREATED PARAFFINIC	0.01
	ETHANOL,2-[2- (BENZOYLOXY)ETHOXY]	0.01
	KEROSENE, HYDROTREATED	0.01
	PROPANOL, 1(or 2)-(2- HYDROXYMETHYLETHOXY-, 1- MONOBENZOATE)	0.01
	2,6-DI-TERT-BUTYL P-CRESOL	0.005
	TETRAKIS[METHYLENE(3,5-DI- TERT-BUTYL-4-HYDROXYHYDRO- CINNAMATE)] METHANE	0.005



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	METHYL ACETATE	0.005
	METHYL ALCOHOL	0.005
FILTER ADHESIVES (continued)	SODIUM ACETATE	0.005
	WHITE MINERAL OIL	0.005
	1,2-BENZISOTHIAZOLINE-3-ONE	0.001
	PROCESSING AIDS (ANTIOXIDANT, DEFOAMER, PRESERVATIVE, WATER)	