

Title (en)

PAPER FOR PRODUCING DISPERSIBLE CIGARETTE FILTERS AND METHOD FOR PRODUCING SAME

Title (de)

PAPIER ZUR HERSTELLUNG VON DISPERGIERBAREN ZIGARETTENFILTERN UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

PAPIER POUR LA FABRICATION DE FILTRES JETABLES DE CIGARETTES ET PROCÉDÉ DE FABRICATION DE CELUI-CI

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Application

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Priority

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Abstract (en)

The present invention relates to paper for producing dispersible cigarette filters and a method for producing same. The paper consists of at least ninety-three percent (93%) by weight cellulose fibres and between zero and seven percent (0 to 7%) by weight optionally applicable natural additives. The cellulose fibres consist of between seventy and ninety percent by weight (70% to 90%) natural, virgin or recycled pulp fibres, and consist of ten to thirty percent by weight (10 to 30%) short regenerated cellulose fibres. The natural pulp fibres have a length comprised between half and four millimetres (0.5 to 4 mm) and the short regenerated cellulose fibres, have a length comprised between eight and twelve millimetres (8 to 12mm). The density of the natural pulp fibres is comprised between one and two decitex (1 to 2 dtex); while the density of the regenerated cellulose fibre is comprised between zero point nine and two point four decitex (0.9 to 2.4 dtex) and the density of the final product is comprised between 10 and 99 Kg/m³, achieving strengths ranging from 20N/5cm to 60N/5cm. The paper thus obtained does not contain any non-natural polymers, or chemical products in general, and the degree of water absorption measured under the UNE-EN ISO 9073-6 test gives absorption values comprised between 600% and 1200% according to the ISO standard and preferably between 700% and 900%, thus ensuring dispersions (according to Slosh box test) greater than 80% in less than 5 minutes. The method for producing this paper consists in: mixing with water all the cellulose fibres formed by natural pulp fibres, in addition to the short regenerated cellulose fibres, subsequently passing the fibres to a headbox (1.6) of the high-dilution paper machine (1); subjecting the fibres, in a subsequent step, to hydroentanglement (1.8); and then passing them to a step of drying the paper, which is carried out using a through-air dryer (TAD) (1.9).

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