Title (en)

Coating agent for fibers

Title (de)

Beschichtungsmittel für Fasern

Title (fr)

Agent de revêtement pour fibres

Publication

EP 0935019 A1 19990811 (DE)

Application

EP 99101835 A 19990128

Priority

DE 19805104 A 19980209

Abstract (en)

A fiber-coating material, especially for elastan fibers, comprises a dispersion of fatty acid metal salt and an agglomeration inhibitor, especially an anionic or nonionic antistatic additive, in a mixture of polyorganosiloxane and mineral oil. A coating material for fibres, especially elastan fibres, comprises a dispersion in silicone/oil containing at least (A) 30-98.97 (preferably 70-94.8) wt% polyalkylsiloxane with a viscosity of 2-150 mPa.s (25 degrees C), (B) 0.01-20 (preferably 0.1-2) wt% of the salt of a 6-30C fatty acid (saturated or unsaturated, mono- or bifunctional) and a Main Group I, II or III metal, (C) 1-69 (preferably 3-50, most preferably 5-30) wt% mineral oil with a viscosity of 2-500 mPa.s (25 degrees C), a density of 800-900 kg/m<3> (15 degrees C) and a viscosity-density constant of 0.770-0.825 and (D) 0.02-15 (preferably 0.05-5, most preferably 0.1-3) wt% cationic, anionic or nonionic antistatic compounds, especially anionic or non-ionic antistatic compounds, as agglomeration inhibitor. Independent claims are also included for (a) a process for the production of this fiber-coating material by dissolving the metal salt (B) in the mineral oil (C) at 70-170 degrees C and rapidly mixing/homogenising the hot solution with the silicone (A) in an intensive mixer, the agglomeration inhibitor (D) being added either to component (C) or (A) before mixing or to the resulting dispersion, preferably after homogenising; (b) fibers, especially polyurethane fibers, coated with this material.

Abstract (de)

Die Erfindung betrifft Beschichtungsmittel für Fasern und ein Verfahren zu seiner Herstellung. Die Erfindung betrifft insbesondere Präparationsmittel für Elastane auf Basis einer Dispersion von fettsauren Metallsalzen und einem Agglomerationsinhibitor in Polyorganosiloxanen und Mineralölen. Die Präparationen werden durch einen Fällungsprozeß hergestellt, aus dem feinkörnige und sedimentationsstabile Dispersionen mit enger Korngrößenverteilung resultieren, die frei von Agglomeraten sind. <IMAGE>

IPC 1-7

D06M 13/02; D06M 13/184; D06M 13/203; D01F 6/70; D06M 13/292; D06M 15/643

IPC 8 full level

D01F 6/70 (2006.01); **D06M 13/02** (2006.01); **D06M 13/188** (2006.01); **D06M 13/192** (2006.01); **D06M 13/224** (2006.01); **D06M 13/248** (2006.01); **D06M 13/256** (2006.01); **D06M 13/285** (2006.01); **D06M 13/288** (2006.01); **D06M 13/292** (2006.01); **D06M 13/295** (2006.01); **D06M 13/35** (2006.01); **D06M 13/355** (2006.01); **D06M 13/358** (2006.01); **D06M 15/643** (2006.01); D06M 101/00 (2006.01); D06M 101/16 (2006.01); D06M 101/30 (2006.01)

CPC (source: EP US)

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