

Title (en)

HYDROPHOBIC, SALT-LIKE STRUCTURED SILICATE

Title (de)

HYDROPHOBIERTES SALZARTIGES STRUKTURSILIKAT

Title (fr)

SILICATE STRUCTURAL SALIN RENDU HYDROPHOBE

Publication

**EP 1749064 A2 20070207 (DE)**

Application

**EP 05733904 A 20050428**

Priority

- EP 2005004542 W 20050428
- DE 102004024001 A 20040514

Abstract (en)

[origin: WO2005111729A2] A salt-like, hydrophobic structured silicate is disclosed. The cation of the salt-like structured silicate is a low-molecular organic cation or a combination thereof with an NH<sub>4</sub><+>, H<sub>3</sub>O<+>, alkali metal, alkaline earth metal, earth metal and/or transition metal ion. The anion of the salt-like structured silicate is an island, ring, group, chain, band, layer or tectosilicate, or a combination thereof. The structured silicate is produced by (a) reacting a structured silicate whose cation is an NH<sub>4</sub><+>, H<sub>3</sub>O<+>, alkali metal, alkaline earth metal, earth metal and/or transition metal ion or a combination thereof, and whose ion is an island, ring, group, chain, band, layer or tectosilicate, or a combination thereof, in an aqueous dispersion with a low-molecular organic cation; by (b) adding to and intensively blending with the aqueous structured silicate dispersion a hydrophobic compound from the group of waxes and metal soaps, in a quantity ranging from 0.2 to 200 % by weight of the salt-like structured silicate in step (a), before, during and/or after step (a) is carried out; and by (c) optionally removing, drying and isolating in the form of a powder the salt-like, hydrophobic structured silicate produced during step (b).

IPC 8 full level

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