

Title (en)
PROCESS FOR THE SYNTHESIS OF HYBRID ALLOPHANE

Title (de)
VERFAHREN ZUR SYNTHESE VON HYBRIDEM ALLOPHAN

Title (fr)
PROCEDE DE SYNTHESE D'ALLOPHANE HYBRIDE

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Application
EP 15734346 A 20150702

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• EP 2015065128 W 20150702

Abstract (en)
[origin: WO2016001373A1] The present invention relates to a process for preparing hollow particles of spherically shaped hybrid aluminosilicates of allophane type with a core, comprising at least the steps consisting in: (a) providing, at ambient temperature, an aqueous medium containing at least one aluminium precursor and one silicon alkoxide in an Al/Si mole ratio ranging from 1 to 3, (b) carrying out, with stirring, the alkaline hydrolysis of said medium with gradual addition of at least one base in a base/Al mole ratio of 2.3 to 3, (c) at the end of the addition of all of said base, maintaining the stirring at ambient temperature until said medium is obtained in the clear state and (d) heating the solution obtained at a temperature ranging from 50 to 150°C, for 2 to 8 days, characterized in that all of steps (a) to (d) are carried out in a reactor consisting of a material which is chemically inert with respect to the reagents and to said expected aluminosilicate.

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Citation (search report)
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