

Title (en)

METHOD AND SYSTEM FOR ACTIVATING CLAY

Title (de)

VERFAHREN UND ANLAGE ZUR AKTIVIERUNG VON TONEN

Title (fr)

PROCÉDÉ ET SYSTÈME D'ACTIVATION D'ARGILE

Publication

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Application

**EP 21729405 A 20210511**

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Abstract (en)

[origin: WO2021228430A1] The invention relates to a method and a system for activating clay. According to the invention, clay raw material is divided into a coarse product fraction and a fine product fraction; the fine product fraction is preheated in a preheater, and the fine product fraction is then activated in a fluidized bed reactor and/or entrained bed reactor; the activated and heated fine product fraction is combined with the separated and cooled coarse product fraction, whereby the thermally activated clay fraction is quenched; and the combined clay fractions are discharged out of the reactor. The aforementioned method is advantageous in that the activated clay is not oxidized and therefore the clay is not colored reddish. Additionally, the preceding separation process saves a considerable amount of thermal energy, and the quenching process of the thermally activated clay stabilizes the total product against an undesired red coloring.

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