

Potentials in Bleaching Earth Reduction – Theoretical Background and Industrial Results

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The bleaching process combines physical (e.g. adsorption), chemical (e.g. acidic and catalytic properties of bleaching earth) and mechanical (filtration) sub-processes. The existing methods to improve the bleaching process exploit the bleaching sub-processes in a different degree.

Several processes are today available to increase the efficiency of the bleaching process. It is presented an overview about the bleaching improvement processes. The different bleaching processes are illustrated and explained with the help of phase diagrams, which base on bleaching isotherms. The phase diagrams improves the understanding of the mechanism, the dominant sub-process and the driving force of the different bleaching processes.