

Title (en)
METHOD FOR SEPARATING CALCIUM CARBONATE AND GYPSUM

Title (de)
VERFAHREN ZUR TRENNUNG VON CALCIUMCARBONAT UND GIPS

Title (fr)
MÉTHODE DE SÉPARATION DE CARBONATE DE CALCIUM ET DE GYPSE

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Application
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Abstract (en)
[origin: WO2014095980A1] The invention relates to a method for separating a suspension containing gypsum granules and calcium carbonate granules and an aqueous solution, characterized in that the aqueous solution comprises at least one sodium salt and in that the aqueous solution has a sodium ion concentration of at least 3 g/l and in that said method comprises a step of separation by floatation using a collector for the gypsum granules, wherein the collector comprises at least one heteropolar organic surfactant of formula RX, in which: - R denotes a hydrocarbon-based chain comprising from 2 to 50 carbon atoms, and the hydrocarbon-based chain is chosen from: a saturated or unsaturated, linear alkyl chain and a saturated or unsaturated, branched alkyl chain, - X denotes at least one ionizable group chosen from the group consisting of: a carboxylic group, a sulfonate group, a sulphate group, a phosphonate group, or a phosphate group, or a hydroxamate group.

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