

Title (en)
IMPROVEMENTS RELATING TO THE BAYER PROCESS

Title (de)
VERBESSERUNG DES BAYER PROCESSES

Title (fr)
PERFECTIONNEMENTS SE RAPPORTANT AU PROCEDE BAYER

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Application
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Abstract (en)
[origin: WO9929626A1] The present invention relates to a method for reducing scale in the Bayer process comprising: (a) digesting an aluminous ore in a caustic liquor to extract alumina values; (b) feeding the liquor to a settler tank to clarify the liquor by separating caustic insoluble materials; and (c) precipitating alumina crystals from the clarified liquor, the process further comprising adding a polysaccharide to the feed of the settler in an amount less than 50 ppm, said amount being sufficient to minimize the formation of scale and lengthen the time between descaling operations in comparison with a feed in the absence of polysaccharide. By using the method of the invention it is possible to substantially lengthen the time between descaling operations in some cases by over 100 %.

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Citation (search report)
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