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论文

拜耳法干式赤泥基本特性及堆场运行特征分析

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摘要:

拜耳法赤泥矿物成分特殊,力学性能较差,平果铝赤泥堆场利用拜耳法赤泥筑坝在国内尚属首次。通过对拜耳法赤泥颗分情况、矿物及化学组成、物理力学特性等进行试验研究,认为赤泥中Fe<sub>2</sub>O<sub>3</sub>含量较高、粒径较细且属于级配不良的土;结合平果铝赤泥堆场目前的运行情况,分析了赤泥堆场目前运行时存在的排水系统、赤泥固结等几个问题,指出了赤泥堆场堆存后期有可能由于赤泥排水缓慢而导致堆场底部赤泥长期被水浸泡,从而对堆场的稳定性造成一定影响。

关键词: 拜耳法,赤泥,平果铝,运行特征

## ANALYSIS ON BASIC CHARACTERISTICS OF BAYER'S DRY RED MUD AND THE OPERATION FEATURE OF THE YARD

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**Abstract:**

The red mud of Bayer's method has a very special mineral compositions and poor mechanical properties, It's the first time to use Bayer's dry type storage of red mud in the yard at home by

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- 拜耳法,赤泥,平果铝,运行特征

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Ping-guo aluminum company. The properties of red mud has been examined by the experimental tests including particle size distribution, mineral compositions, chemical compositions, physical and mechanical properties. It's concluded that the Bayer's red mud with high Fe<sub>2</sub>O<sub>3</sub> content, small particle size and belongs to poor grading soil; Based on the operation characteristics of red mud yard, It s points out that the problems of drainage system as well as the consolidation of the red mud, the studies shows that the later stage of red mud yard may be immersed in the water with a long time due to the slow drainage, and thus it would be has some effect on the stability of red mud yard.

**Keywords:** Bayer's method, Red mud, Ping guo Aluminum ore, Operating characteristic

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